

QY 301 CCCAAGCTCAGACACAGAAAAGACATACTGACAAATTTTGGCAAAATACAACTTCAGATT 360
Db 301 CCCAAGCTCAGACACACAGAAAAGACATACTGACAAATTTTGGCAAAATACAACTTCAGATT 360
QY 361 ACTTGACAGGGGACAGCGGGACCTGGACTGGCTTTGGCCCAATGCTCAGCCGTGATTCAG 420
Db 361 ACTTGACAGGGGACAGCGGGACCTGGACTGGCTTTGGCCCAATGCTCAGCCGTGATTCAG 420
QY 421 GAAAGGATTTGGTGAATGACGCGCGGTGGTGAAGTATCTTCTGCAAAAACATCCACC 480
Db 421 GAAAGGATTTGGTGAATGACGCGCGGTGGTGAAGTATCTTCTGCAAAAACATCCACC 480
QY 481 ATTCCACAGGGTGTGGAAATGATATCTGAGCTTCAAGTGCTCGTACCGGGAGCTGCAC 540
Db 481 ATTCCACAGGGTGTGGAAATGATATCTGAGCTTCAAGTGCTCGTACCGGGAGCTGCAC 540
QY 541 ATAGCTTCACATGTTTATGTCATGTTGAGATTACATGACCATTCATGGCTCTGTC 600
Db 541 ATAGCTTCACATGTTTATGTCATGTTGAGATTACATGACCATTCATGGCTCTGTC 600
QY 601 AGTGACAGCATGCGCATGCTGTATCATCAACCGAACAAGAAACAAAACCTGTGATCCCC 660
Db 601 AGTGACAGCATGCGCATGCTGTATCATCAACCGAACAAGAAACAAAACCTGTGATCCCC 660
QY 661 TGCCGAGGGTGCATTTCAACCTCAATGTGTCTTTGCGCTAGGGTATCCAGAAAAGAGA 720
Db 661 TGCCGAGGGTGCATTTCAACCTCAATGTGTCTTTGCGCTAGGGTATCCAGAAAAGAGA 720
QY 721 TTTGTTCCGGATGGAACAGAAATTTCCGGGACAGCGGATAGGCTTATACCTCCCGAGT 780
Db 721 TTTGTTCCGGATGGAACAGAAATTTCCGGGACAGCGGATAGGCTTATACCTCCCGAGT 780
QY 781 TACATGATCAGCTATGCGCGCATGGTCTTCTGTGAGGCAAAAGATCAATGATGAAACCTAT 840
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Db 841 CAGTCTATCATGTACATAGTTGTGGTGTAGAGATTAAGATTTATGATGTGATTCAGC 900
QY 901 CCCCCGATGAAATTTGAGCTATGCGCGGAGAAAACCTTGCTTAAATTTGTAACGCGAGA 960
Db 901 CCCCCGATGAAATTTGAGCTATGCGCGGAGAAAACCTTGCTTAAATTTGTAACGCGAGA 960
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QY 1021 AAGAAGATTGTAAACCGGGATGTGAACCTTTCTGCGAAGCTGTGGCAAGATGTTTTG 1080
Db 1021 AAGAAGATTGTAAACCGGGATGTGAACCTTTCTGCGAAGCTGTGGCAAGATGTTTTG 1080
QY 1081 AGCACTTGACAAATGAAAGTGTGACCAAGAGTGAACCAAGGGGAATACCTGTGTAGCG 1140
Db 1081 AGCACTTGACAAATGAAAGTGTGACCAAGAGTGAACCAAGGGGAATACCTGTGTAGCG 1140
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Db 1141 TCCAGTGAACCGATGATCAAGAGAAATAGAACTTTGTCGAGTTCAACAAGCCTTTT 1200
QY 1201 ATTGCTTTCTGGTGTGGGATGAATCTTTGTGTGAAGCCACAGTGGGCAGTCAAGTCCGA 1260
Db 1201 ATTGCTTTCTGGTGTGGGATGAATCTTTGTGTGAAGCCACAGTGGGCAGTCAAGTCCGA 1260
QY 1261 ATCCCTGTGAAGTATCTAGTTTACCCAGCTCTGTATCAAAATGTTTACAGAAATGGAAG 1320
Db 1261 ATCCCTGTGAAGTATCTAGTTTACCCAGCTCTGTATCAAAATGTTTACAGAAATGGAAG 1320
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Db 1321 CCCATTGAGTCAACTACACATGATTTGTGGCGATGAACTCAACCATGATGGAAGTACT 1380
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Db 1381 GAAAGAGATGACAGAACTACACGGTATCTCTCAACCAACCCCATTTCAATGAGAGAAACAG 1440
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Db 1441 AGCCCATGGTCTCTCGATTGTGAATGTCCACCCAGATCGGTGAGAAAGCCTGTATC 1500
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Db 1501 TCGCCTATGGAATTCCTACAGATAGGAGACATGACAGCATTTGACATGACAGTCTACGCC 1560
QY 1561 AACCTTCCCTGACACATTCAGTGTATCTGGCACTGAGAAAGCCTGCTCTTACAGA 1620
Db 1561 AACCTTCCCTGACACATTCAGTGTATCTGGCACTGAGAAAGCCTGCTCTTACAGA 1620
QY 1621 CCGGCGAAACCAACCCGATAGCTTTGTAAGAATGGAACACGCGGAGATTTCCAGGGG 1680
Db 1621 CCGGCGAAACCAACCCGATAGCTTTGTAAGAATGGAACACGCGGAGATTTCCAGGGG 1680
QY 1681 GAAACCAAGATCGAAGTACCCAAACCAATATGCCCTGATTGAAGAAACCAAAACCT 1740
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Db 1801 AACCAAGCGGAGCAGAGAGAGAGGTATCTCTTCAATGATACAGGGGTCCTGAATTT 1860
QY 1861 ACTGTGCAACCTGTGCCCAGCCCACTGAGCAGAGAGTGTGCTGTTGTGACATGCA 1920
Db 1861 ACTGTGCAACCTGTGCCCAGCCCACTGAGCAGAGAGTGTGCTGTTGTGACATGCA 1920
QY 1921 GACGAAATACGTTTGAAGACCTCACTGTGTACAGCTTGGCTCAACGCAACATCGGTC 1980
Db 1921 GACGAAATACGTTTGAAGACCTCACTGTGTACAGCTTGGCTCAACGCAACATCGGTC 1980
QY 1981 CACATGGGCGAATACATCACACCGTTGCAAGAACTTGGATGCTCTTTGGAACTGAAT 2040
Db 1981 CACATGGGCGAATACATCACACCGTTGCAAGAACTTGGATGCTCTTTGGAACTGAAT 2040
QY 2041 GGCACATGTTTTCTTAACAGACCAATAGACATCTTGAATGTGCAATTCAGAAATGCCCT 2100
Db 2041 GGCACATGTTTTCTTAACAGACCAATAGACATCTTGAATGTGCAATTCAGAAATGCCCT 2100
QY 2101 CTGCAAGACCAAGCGCATATGTTGCTGTGCTCAAGATAAGAAACCAAGAAAGACAT 2160
Db 2101 CTGCAAGACCAAGCGCATATGTTGCTGTGCTCAAGATAAGAAACCAAGAAAGACAT 2160
QY 2161 TGCTGTGTCAAACGCTCATCATCTTGAAGGCACTGGCAACCATGATCACCGGAAATCTG 2220
Db 2161 TGCTGTGTCAAACGCTCATCATCTTGAAGGCACTGGCAACCATGATCACCGGAAATCTG 2220
QY 2221 GAGAAATCAGACCAACCAATTTGGCAGACCAATGAAGTGAATCTTCCAGCATCTGAAAT 2280
Db 2221 GAGAAATCAGACCAACCAATTTGGCAGACCAATGAAGTGAATCTTCCAGCATCTGAAAT 2280
QY 2281 CTTAACCCCAACATTTATGTTTAAAGACAGAGACCTGTGTGAAGATTCAGGCAATT 2340
Db 2281 CTTAACCCCAACATTTATGTTTAAAGACAGAGACCTGTGTGAAGATTCAGGCAATT 2340
QY 2341 GTACTGAGAGATGGGAAACCGGAACCTGACTATCCGCAAGGATGAGAAAGAGATGAGGC 2400
Db 2341 GTACTGAGAGATGGGAAACCGGAACCTGACTATCCGCAAGGATGAGAAAGAGATGAGGC 2400
QY 2401 CTCTTACACTGTGCAAGGCTGCAATGTCTTGTGCTGTGCAAGAGCGAGACGCTCTTCA 2460
Db 2401 CTCTTACACTGTGCAAGGCTGCAATGTCTTGTGCTGTGCAAGAGCGAGACGCTCTTCA 2460
QY 2461 ATGAAAGTGCCAGGAAAGACCAATTTGGAAGTCAATTAATCTTGTGCGGACATGCACTG 2520

Db	2461	ATTGAAAGTGGCCACAGAAAAAGCACTTGGAAATCTTATTCCTGTCGGCATGCACTG	2520
Qy	2521	ATTGCAATGTTCTTCCTGGCTCCTTCTTGATCTGTCCTTAGGACCGTTAAGCGGCCAAT	2580
Db	2521	ATTGCCATGTTCTTCCTGGCTCCTTCTTGATCTGTCCTTAGGACCGTTAAGCGGCCAAT	2580
Qy	2581	GAAGGGGAACCTGAAGACAGGCTACTTGTCTATTGTCTATGATCCAGATGAATTGCTCTTG	2640
Db	2581	GAAGGGGAACCTGAAGACAGGCTACTTGTCTATTGTCTATGATCCAGATGAATTGCTCTTG	2640
Qy	2641	GATGAGCGCTGTGAACGCTGCTCTATGATGCAACAGTGGGAAATCCACAGGAGACCGG	2700
Db	2641	GATGAGCGCTGTGAACGCTGCTCTATGATGCAACAGTGGGAAATCCACAGGAGACCGG	2700
Qy	2701	CTGAACCTAGGAAAACTCTTGCGCCGCGGTGCTTCGGCCAAAGTATTGAAGCAGACGT	2760
Db	2701	CTGAACCTAGGAAAACTCTTGCGCCGCGGTGCTTCGGCCAAAGTATTGAAGCAGACGT	2760
Qy	2761	TTTGGATTGACAAACAGCGCACTTGCAAAACAGTACCGCTCAAGATGTTGAAAGAAAGGA	2820
Db	2761	TTTGGAAATTGACAAACAGCGCACTTGCAAAACAGTACCGCTCAAGATGTTGAAAGAAAGGA	2820
Qy	2821	GCAACACACAGCGACATCGAGCCCTCATGTCTGAACCTCAAGATCCATATCCACATGGT	2880
Db	2821	GCAACACACAGCGACATCGAGCCCTCATGTCTGAACCTCAAGATCCATATCCACATGGT	2880
Qy	2881	CACCATCTCAATTGTGTGTAACCTCCTTAGGCCCTGACCAAGCCGGAGGGCTCTCATG	2940
Db	2881	CACCATCTCAATTGTGTGTAACCTCCTTAGGCCCTGACCAAGCCGGAGGGCTCTCATG	2940
Qy	2941	GTGATTGTGGAATTCTGCAAGTTTGGAAACCTATCACTTACCTTACGGGGCAAGAAAT	3000
Db	2941	GTGATTGTGGAATTCTGCAAGTTTGGAAACCTATCACTTACCTTACGGGGCAAGAAAT	3000
Qy	3001	GAATTGTTCCTTAATGAAGCAAAAGGGGACAGCTTCGGCCAGGGCAGAGATGATTGGG	3060
Db	3001	GAATTGTTCCTTAATGAAGCAAAAGGGGACAGCTTCGGCCAGGGCAGAGATGATTGGG	3060
Qy	3061	GAGCTCTCCGTGGAATCTGAAAAAGACGCTTGGACAGCATCACACAGCAGCAGAGCTTGCC	3120
Db	3061	GAGCTCTCCGTGGAATCTGAAAAAGACGCTTGGACAGCATCACACAGCAGCAGAGCTTGCC	3120
Qy	3121	AGCTCAGGCTTGTGTGAGAGAAATCGCTCAGTATGTAGAGAAAGAAAGCTTCTGAA	3180
Db	3121	AGCTCAGGCTTGTGTGAGAGAAATCGCTCAGTATGTAGAGAAAGAAAGCTTCTGAA	3180
Qy	3181	GAACCTGTACAGAGACTTCTGACCTTGGAGCATCTCATCTGTACAGCTTCCAAATGCGCT	3240
Db	3181	GAACCTGTACAGAGACTTCTGACCTTGGAGCATCTCATCTGTACAGCTTCCAAATGCGCT	3240
Qy	3241	AAGGCGATGAGATTCTTGGGCATCAAGGAAGTATCCACAGGGACCTGGGACGACGGAAC	3300
Db	3241	AAGGCGATGAGATTCTTGGGCATCAAGGAAGTATCCACAGGGACCTGGGACGACGGAAC	3300
Qy	3301	ATTCTCTATCGAGAAAGATGTGGTTAAGATCTGTGACTTCGGCTTGCGCCGGACATT	3360
Db	3301	ATTCTCTATCGAGAAAGATGTGGTTAAGATCTGTGACTTCGGCTTGCGCCGGACATT	3360
Qy	3361	TATTAAGAATCCGGATTAATGTACAGAAAAAGGAATCCCGACCTCCCTTTGAATGGATGGCC	3420
Db	3361	TATTAAGAATCCGGATTAATGTACAGAAAAAGGAATCCCGACCTCCCTTTGAATGGATGGCC	3420
Qy	3421	CCGGAAACCAATTTTGTGACAGAGTATACAAATTCAGAGCGATGTGTGTCTTTCGGGTG	3480
Db	3421	CCGGAAACCAATTTTGTGACAGAGTATACAAATTCAGAGCGATGTGTGTCTTTCGGGTG	3480
Qy	3481	TTGCTCTGGAAATATTTTCTTAAAGTGCCTCCCATACCTGGGATCAAGATTGATGAA	3540
Db	3481	TTGCTCTGGAAATATTTTCTTAAAGTGCCTCCCATACCTGGGATCAAGATTGATGAA	3540
Qy	3541	GAATTTTGTAGAGATTTGAAGAAAGAACTTAGATGCGGGCTCTGTACTACATACCCCA	3600
Db	3541	GAATTTTGTAGAGATTTGAAGAAAGAACTTAGATGCGGGCTCTGTACTACATACCCCA	3600

QY	3601	GAAATGTAACAGACCATCTGTGGA	CTGCTGCA	TAGAGACC	CCCAACAGAGACCTCTGTT	3660	
Db	3601	GAAATGTAACAGACCATCTGTGGA	CTGCTGCA	TAGAGACC	CCCAACAGAGACCTCTGTT	3660	
QY	3661	TCAGAGTTGGTGGAGACATTTGGGAAA	CTCCCTCG	CAAGAAAT	TGGCAGACAGATGGCAAA	3720	
Db	3661	TCAGAGTTGGTGGAGACATTTGGGAAA	CTCCCTCG	CAAGAAAT	TGGCAGACAGATGGCAAA	3720	
QY	3721	GACTATATTTGTTCTTCCAAATGT	CAGAGAC	ACTGAGAC	TGAAAGGATTTCTGACTCTCC	3780	
Db	3721	GACTATATTTGTTCTTCCAAATGT	CAGAGAC	ACTGAGAC	TGAAAGGATTTCTGACTCTCC	3780	
QY	3781	CTGCCTCACTCACCGTTTCTCGAT	TGGAGGA	AAAGGAAG	TGTCGACCCCAATTCAT	3840	
Db	3781	CTGCCTCACTCACCGTTTCTCGAT	TGGAGGA	AAAGGAAG	TGTCGACCCCAATTCAT	3840	
QY	3841	TATGCAACACAGCAGAGAAATCAG	TATATCT	CCAGAACAG	TAAAGCCAGCCGCGCA	3900	
Db	3841	TATGCAACACAGCAGAGAAATCAG	TATATCT	CCAGAACAG	TAAAGCCAGCCGCGCA	3900	
QY	3901	GTTGAGTGTAAAAAATTGGAAGAT	TATCCAT	TTGAGGAA	CCAGAAAT	TTATCCCA	3960
Db	3901	GTTGAGTGTAAAAAATTGGAAGAT	TATCCAT	TTGAGGAA	CCAGAAAT	TTATCCCA	3960
QY	3961	GATGACAGCCGAGACAGACAGTGG	AGTGGTCT	CTTCAT	CAGAAAGCTG	AAAACTCTGGA	4020
Db	3961	GATGACAGCCGAGACAGACAGTGG	AGTGGTCT	CTTCAT	CAGAAAGCTG	AAAACTCTGGA	4020
QY	4021	GACAGGAAACAATATATCTCCAT	CTTTTGT	TGGAAATG	ATGCCAG	TAAAAAGCAGGAGCTT	4080
Db	4021	GACAGGAAACAATATATCTCCAT	CTTTTGT	TGGAAATG	ATGCCAG	TAAAAAGCAGGAGCTT	4080
QY	4081	GTTGGCTTCGGAAGGCTCCAC	ACACAG	TGGGAT	CCAGTGGGAT	TACCTCAGATGAC	4140
Db	4081	GTTGGCTTCGGAAGGCTCCAC	ACACAG	TGGGAT	CCAGTGGGAT	TACCTCAGATGAC	4140
QY	4141	ACAGACACCAACCGTGTACTCC	AGCAGACAGG	CAGAGACTTT	TAAAGATGT	TGATGACTGCA	4200
Db	4141	ACAGACACCAACCGTGTACTCC	AGCAGACAGG	CAGAGACTTT	TAAAGATGT	TGATGACTGCA	4200
QY	4201	GTTTACCGCTGACTCAGGGA	CCACACTG	CGCTCACT	CTGTTTAA	TGGAATGTCTCTG	4260
Db	4201	GTTTACCGCTGACTCAGGGA	CCACACTG	CGCTCACT	CTGTTTAA	TGGAATGTCTCTG	4260
QY	4261	TCCCGGCTCCGCCCCCAACT	CTCTGGA	ATACAG	GAGAGTGCTG	CTTAGATTTTCAAGT	4320
Db	4261	TCCCGGCTCCGCCCCCAACT	CTCTGGA	ATACAG	GAGAGTGCTG	CTTAGATTTTCAAGT	4320
QY	4321	GTTGTTCTTTTCCACCA	CCCGAAGT	AGCCACATTTG	ATTTTCA	TTTTTGGAGAGGAGCC	4380
Db	4321	GTTGTTCTTTTCCACCA	CCCGAAGT	AGCCACATTTG	ATTTTCA	TTTTTGGAGAGGAGCC	4380
QY	4381	TCACACGCAAGAGAGCTGTGCT	CTCAGGGCA	ATTTCC	ACAAGAAAGT	GCCACGACCCCAAGAA	4440
Db	4381	TCACACGCAAGAGAGCTGTGCT	CTCAGGGCA	ATTTCC	ACAAGAAAGT	GCCACGACCCCAAGAA	4440
QY	4441	TGTGTTGACTTACTCTCTTTT	CCATTCATTT	TAAAGTCT	CTATATAT	TGTGCTGCTGCTGT	4500
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QY	4501	GCTTCTCACTACAGTTTAA	ACGAAAGACTTT	CAAAAC	CTGTGAC	TCTGTCTCCAAAGAG	4560
Db	4501	GCTTCTCACTACAGTTTAA	ACGAAAGACTTT	CAAAAC	CTGTGAC	TCTGTCTCCAAAGAG	4560
QY	4561	TGGCAACGGGACCTCTGTG	AAAACTG	ATTCGA	ATGGGCAATG	CTTTGTGTGTTGAGATGG	4620
Db	4561	TGGCAACGGGACCTCTGTG	AAAACTG	ATTCGA	ATGGGCAATG	CTTTGTGTGTTGAGATGG	4620
QY	4621	GTTGAGATGTCCCAAGG	CCGAGTCTGT	TACCTTTG	AGAGCTTTG	AGAGATGGCGCTATG	4680
Db	4621	GTTGAGATGTCCCAAGG	CCGAGTCTGT	TACCTTTG	AGAGCTTTG	AGAGATGGCGCTATG	4680

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4861 GCGGTGAGAGCTGTGAGATGCAATGTGCTGTGCTGTGAGAGGTGTGAGCTGTG 4920
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5221 GTGCTTCTCTGATGAGCAAGAAATCTTAATGTTGTTGCTCTCAATATCACTAG 5280
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5281 CCAATTTTGAATTTACTTTTGAAGCGAGTTAGATTAATCACTATCTATCTTGA 5340
5281 CCAATTTTGAATTTACTTTTGAAGCGAGTTAGATTAATCACTATCTATCTTGA 5340
5341 TTTTAACTTATTAATCTATGCTACTGCTTCTGCTGCTGCTGCTGCTGCTG 5390
5341 TTTTAACTTATTAATCTATGCTACTGCTTCTGCTGCTGCTGCTGCTGCTG 5390

RESULT 2
US-09-766-678-1
Sequence 1, Application US/09766678
Patent No. US20020081650A1
GENERAL INFORMATION:
APPLICANT: Ulrich, Axel
Rissau, Werner
Mullauer, Birgit
Gazit, Aviv
Levitckzki, Alex
TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
Endothelial Growth Factor
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESS: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/766,678
FILING DATE: 25-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/193,829
FILING DATE: 09-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-060
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-1990
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5470 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 286..4386
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-766-678-1
Query Match 99.2%; Score 5346; DB 3; Length 5470;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;
1 CTGTGCTCCGCGAGCC-GAATTAATCTGAGTGAACCGGATTTCCGAGACCGCTG-CAGCGG 58
77 CTGTGCTCCGCGAGCCGAGATTAATCTGAGTGAACCGGATTTCCGAGACCGCTGAGCGG 136
59 CGGCTGAGCCAGGCGCGCGGTGCGCGCGCTCTCCCGGCTCTTGTGCGCTGCGGGGCGCAT 118
137 CGGCTGAGCCAGGCGCGCGGTGCGCGCGCTCTCCCGGCTCTTGTGCGCTGCGGGGCGCAT 196
119 ACCGCTCTGTGACTTTCTTTGCGGGCCAGAGGACGAGAAAGATCTGTGCTGAGAAACT 178
197 ACCGCTCTGTGACTTTCTTTGCGGGCCAGAGGACGAGAAAGATCTGTGCTGAGAAACT 256
179 GGGCTGTGCGCCAGGCGCGAGGTGAGATGAGAGCAAGCGCTGACTGTGCGCTC 238
257 GGGCTGTGCGCCAGGCGCGAGGTGAGATGAGAGCAAGCGCTGACTGTGCGCTC 316
239 TGTGTTCTGTGAGAGACCGGAGCGCTCTGTGAGTTTGTGAGTTTCTCATC 298
317 TGTGTTCTGTGAGAGACCGGAGCGCTCTGTGAGTTTGTGAGTTTCTCATC 376
299 CCCCCAGCTCAGACACAGAAAGACATCTGACAAATTTTGGCAATTCACCCCTTGA 358
377 CCCCCAGCTCAGACACAGAAAGACATCTGACAAATTTTGGCAATTCACCCCTTGA 436
359 TTACTGAGGAGGAGGAGGAGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 418
437 TTACTGAGGAGGAGGAGGAGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 496
419 AGGAAAGGTAATTTGTGATGTAATGCGGCGGTGTGACAGTATCTTGTGAAAACTCA 478
497 AGGAAAGGTAATTTGTGATGTAATGCGGCGGTGTGACAGTATCTTGTGAAAACTCA 556
479 CCATTTCCAGGAGGTGTGAGAAATGATATCTGAGAGCTTCAAGTGTCTGACCGGAGCTG 538
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617 ACATGAGCTCACTGTTATGTTATGTTATGTTATGTTATGTTATGTTATGTTATGTTATG 676

QY	559	TCAGTGCACCATGGCATTCGTGTACATCACCGAGAACAGAAACAAACTGTGTGATTC	658
Db	677	TCAGTGCACCATGGCATTCGTGTACATCACCGAGAACAGAAACAAACTGTGTGATTC	736
QY	659	CCTGCGCAGGGGTGATTTCAAACTCCATGTGTCTCTTGGCTGTGGATATCCAGAAATGA	718
Db	737	CCTGCGCAGGGGTGATTTCAAACTCCATGTGTCTCTTGGCTGTGGATATCCAGAAATGA	796
QY	719	GATTTGTTCCGGATGAGAAACAGAAATTTCTGTGGACAGCGAGATAGAGCTTTACTCTCCCA	778
Db	797	GATTTGTTCCGGATGAGAAACAGAAATTTCTGTGGACAGCGAGATAGAGCTTTACTCTCCCA	856
QY	779	GTTACATGATCAGCTATGCCGGCATGTGCTTTGTGAGGCAAAAGATCAATGATGAACCT	838
Db	857	GTTACATGATCAGCTATGCCGGCATGTGCTTTGTGAGGCAAAAGATCAATGATGAACCT	916
QY	839	ATCAGTCTATCATGTACATAGTGTGGTGTGTAGATATAGATTTATAGATGATTCCTGA	898
Db	917	ATCAGTCTATCATGTACATAGTGTGGTGTGTAGATATAGATTTATAGATGATTCCTGA	976
QY	899	GCCCCCGCATGAAATTTGAGCTATTCGCCGAGAAACCTTGCTTAAATTGTACAGCGA	958
Db	977	GCCCCCGCATGAAATTTGAGCTATTCGCCGAGAAACCTTGCTTAAATTGTACAGCGA	1036
QY	959	GAAACAGCTCAATGTGGGGCTTGATTTCACTGTGCACCTTCCACCTTCAAAAGTCTATC	1018
Db	1037	GAAACAGCTCAATGTGGGGCTTGATTTCACTGTGCACCTTCCACCTTCAAAAGTCTATC	1096
QY	1019	ATAAGAAATTTGTAAACCGGATGTGAAACCTTTCTGTGGACATGTGGCGAAGATGTTTT	1078
Db	1097	ATAAGAAATTTGTAAACCGGATGTGAAACCTTTCTGTGGACATGTGGCGAAGATGTTTT	1156
QY	1079	TGAGCACTTGTGCAATTAAGATGTGACCAAGATGTGACCAAGGGGAATACACTGTGTAG	1138
Db	1157	TGAGCACTTGTGCAATTAAGATGTGACCAAGATGTGACCAAGGGGAATACACTGTGTAG	1216
QY	1139	CGTCCAGTGAACGAGATGATCAAGAGAAATAGAACTTTGTCCGAGTTTCAACAAAGCTT	1198
Db	1217	CGTCCAGTGAACGAGATGATCAAGAGAAATAGAACTTTGTCCGAGTTTCAACAAAGCTT	1276
QY	1199	TTATTGCTTTGGGTAGTGGGATGAAATCTTTGTGTGGAAGCCACAGTGGGCAAGTCC	1258
Db	1277	TTATTGCTTTGGGTAGTGGGATGAAATCTTTGTGTGGAAGCCACAGTGGGCAAGTCC	1336
QY	1259	GAATCCCTGTGAAGTATCTCAGTTTACCAGCTCCTGATATCAAAATGTGTACAGAAATGAA	1318
Db	1337	GAATCCCTGTGAAGTATCTCAGTTTACCAGCTCCTGATATCAAAATGTGTACAGAAATGAA	1396
QY	1319	GGCCCATTTAGTCCAACTACACAATGATTTGTGGGATGAATCTCACATCATGTGAAGTGA	1378
Db	1397	GGCCCATTTAGTCCAACTACACAATGATTTGTGGGATGAATCTCACATCATGTGAAGTGA	1456
QY	1379	CTGAAAGAGATGACAGAAACTTACACGGTTCATCTCTCAACACCCCATTTCAATGTGAAGAC	1438
Db	1457	CTGAAAGAGATGACAGAAACTTACACGGTTCATCTCTCAACACCCCATTTCAATGTGAAGAC	1516
QY	1439	AGAGCCACATGCTCTCTGGTGTGAGATGTGCCACCCGACATGGGTGAGAAACCTTTGA	1498
Db	1517	AGAGCCACATGCTCTCTGGTGTGAGATGTGCCACCCGACATGGGTGAGAAACCTTTGA	1576
QY	1499	TCTGCGCTATGGAATTTCTTACCAAGTATGGGACCATGTACACATTTGACATGTCAAGTCTACG	1558
Db	1577	TCTGCGCTATGGAATTTCTTACCAAGTATGGGACCATGTACACATTTGACATGTCTACG	1636
QY	1559	CCAAACCTTCCCTGTGACACATCCAGTGTGACTGTGCAAGAAAGCCCTGCTCTTACA	1641
Db	1637	CCAAACCTTCCCTGTGACACATCCAGTGTGACTGTGCAAGAAAGCCCTGCTCTTACA	1696
QY	1619	GACCCGGGCAAAACAAGCCGATATGCTTTTAAAGAAATGAGACAGTGGAGGATTTTCCAGG	1678
Db	1697	GACCCGGGCAAAACAAGCCGATATGCTTTTAAAGAAATGAGACAGTGGAGGATTTTCCAGG	1756
QY	1679	GGGGAAACAGATCGAAGTCAACAAAAACAATATGCCCTATATGAAGAGAAAAACAATA	1738

Db	1757	GGGGAAACAAATCGAAGTCACAAAAA	CCAAATATGCCCTAATTTGAAGAAAA	CAAAA	1816
OY	1759	CTGTAAAGACCTGGTCAATCCAAAGCTGCAACGAGTCAGCGCTGTGA	CAAAATGTGAAGCA	1798	
Db	1817	CTGTAAAGACCTGGTCAATCCAAAGCTGCAACGAGTCAGCGCTGTGA	CAAAATGTGAAGCA	1878	
OY	1799	TCACAAAGCGGAGGAGAGAGAGGATCATCTCCTTCATGTGTATCAGGGGTCCTGAAA	1858		
Db	1877	TCACAAAGCGGAGGAGAGAGAGGATCATCTCCTTCATGTGTATCAGGGGTCCTGAAA	1938		
OY	1889	TTACTGTGCACCTGTCTGCCCACTGACGACGAGAGTGTCTCCTGTTGTGCACCTG	1918		
Db	1937	TTACTGTGCACCTGTCTGCCCACTGACGAGAGAGTGTCTCCTGTTGTGCACCTG	1998		
OY	1919	CAGACAGAAATACGTTTGAAGAACCTCACGTGTGTCAAGCTTGAGCTCAGGCAACATCAG	1978		
Db	1997	CAGACAGAAATACGTTTGAAGAACCTCACGTGTGTCAAGCTTGAGCTCAGGCAACATCAG	2058		
OY	1979	TCACATGAGGCGAAATCACTCAACACAGTTTGCAGAAACCTTGAGTGTCTTTGAAACCTGA	2038		
Db	2057	TCACATGAGGCGAAATCACTCAACACAGTTTGCAGAAACCTTGAGTGTCTTTGAAACCTGA	2116		
OY	2039	ATGACACCATGTTTCTTACACGCAACAAATGACATCTTGATTTGTGCATTTCAAGATGCTT	2098		
Db	2117	ATGACACCATGTTTCTTACACGCAACAAATGACATCTTGATTTGTGCATTTCAAGATGCTT	2176		
OY	2099	CTCTGACGAGCAACAGGCGCATATGTTTGTCTGTCTCAAGATAAAGACCAAGAAAGAC	2158		
Db	2177	CTCTGACGAGCAACAGGCGCATATGTTTGTCTGTCTCAAGATAAAGACCAAGAAAGAC	2236		
OY	2159	ATTGCTGTGTCAAAACAGCTCATCATCTCAGAGCCATAGGCAACCATGATCAACCGGAAATC	2218		
Db	2237	ATTGCTGTGTCAAAACAGCTCATCATCTCAGAGCCATAGGCAACCATGATCAACCGGAAATC	2296		
OY	2219	TGAGAAATCAGACAAACAACATTTGGCGAGACCATTTGAAGTGAATTTGCCAGCATCTGGAA	2278		
Db	2297	TGAGAAATCAGACAAACAACATTTGGCGAGACCATTTGAAGTGAATTTGCCAGCATCTGGAA	2356		
OY	2279	ATCTTACCCCAACAATTAACATGTTTCAAAAGACACGAGACCCCTGTGTGAAGATTTCAAGCA	2338		
Db	2357	ATCTTACCCCAACAATTAACATGTTTCAAAAGACACGAGACCCCTGTGTGAAGATTTCAAGCA	2416		
OY	2339	TTGTACTGAGAGATGGGAAACCGGAAACCTGATATCCGACGGGTGAGGAAAGGAGATGAG	2398		
Db	2417	TTGTACTGAGAGATGGGAAACCGGAAACCTGATATCCGACGGGTGAGGAAAGGAGATGAG	2476		
OY	2399	GCCCTTACACCTGCGCAGGCTTGCATATGCTTGGCTGTGCAAGACCGGAGACGCTCTTCA	2458		
Db	2477	GCCCTTACACCTGCGCAGGCTTGCATATGCTTGGCTGTGCAAGACCGGAGACGCTCTTCA	2536		
OY	2459	TAAATGAAGAGTCCCAAGAAAAAGCAAACTTGAAGATCATATCTCTGTGGCATCTGAC	2518		
Db	2537	TAAATGAAGAGTCCCAAGAAAAAGCAAACTTGAAGATCATATCTCTGTGGCATCTGAC	2596		
OY	2519	TGATTTGCATATTTCTTGGGCTCTTCTGTGATATGTCCTTACCGGACGTTTAAAGCGGCA	2578		
Db	2597	TGATTTGCATATTTCTTGGGCTCTTCTGTGATATGTCCTTACCGGACGTTTAAAGCGGCA	2656		
OY	2579	ATGAAGGGGAACTGAAGACAGGCTTATGTCTATTTGCATAGATCCAGATGAATTTGCCCT	2638		
Db	2657	ATGAAGGGGAACTGAAGACAGGCTTATGTCTATTTGCATAGATCCAGATGAATTTGCCCT	2716		
OY	2639	TGATTAAGACCGCTGTGAACGCTTGCTTATATGATGTCACGAAATGTGGAAATTTCCACGAGAAC	2698		
Db	2717	TGATTAAGACCGCTGTGAACGCTTGCTTATATGATGTCACGAAATGTGGAAATTTCCACGAGAAC	2776		
OY	2699	GGCTGAAGACTAGAAAAACCTTTGGCGCGGTGCTTGGCGCAAGTATTTGAGGCAAGC	2758		
Db	2777	GGCTGAAGACTAGAAAAACCTTTGGCGCGGTGCTTGGCGCAAGTATTTGAGGCAAGC	2836		
OY	2759	CTTTTGAATTTGACAAACAGCGCATTTGCAAAAACAGTAGCCGTCAAGATGTTGAAAGAG	2818		

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Dh 2897 GAGCAACACAGCGAGCATGAGCCCTCATGTCTGAATCTCAAGATCCCTCATTCACATTTG 2956
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Dh 2957 GTCAACATCTCAATGTGTGAACTCTTAGCGCTGACCAAGCCGGAGGAGCTCTCA 3016
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Dh 3017 TGTGATGTGTGAATTTCTGCAAGTTTGGAAACTTACACTTACTTACGGGCAAGAA 3076
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Dh 3077 ATGAATTTGTTCCCTATAGAGCAAAAGGGGACGCTTCGCGCAGGGGCAAGGACTAGTTG 3136
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Dh 3137 GGGAGCTCTCCGTGATCTGAAAAGACGCTTGGACAGATCAACAGCAAGCAGACTCTG 3196
Oy 3119 CCAGCTCAGGCTTTGTGAGAGAAATGCTCTCAGTGAATGTAGAGAAAGAAAGCTTCTG 3178
Dh 3197 CCAGCTCAGGCTTTGTGAGAGAAATGCTCTCAGTGAATGTAGAGAAAGAAAGCTTCTG 3256
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Dh 3257 AAGAACTGTACAGGACTTCTGCTGAGCACTTCTGATCTGTTACAGCTTCCAAAGTGG 3316
Oy 3239 CTAAAGGCGATGAGTCTTGGCATCAGAGAAAGTGTATCACAAGGAGCCTGGCAGACGAA 3298
Dh 3317 CTAAAGGCGATGAGTCTTGGCATCAGAGAAAGTGTATCACAAGGAGCCTGGCAGACGAA 3376
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Dh 3377 ACATTTCCCTATCCGAGAAAGAAATGTGTGAATCTGATCTTCCGCTTGGCCGGGCA 3436
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Qy 4498 TGTGTGTCTTCACTACAGTTTAAAGCAAAAGCTTTCAACAGTGAAGCTGTCTTCAAG 4557
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Db 4577 TGTGTGTCTTCACTACAGTTTAAAGCAAAAGCTTTCAACAGTGAAGCTGTCTTCAAG 4636
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Qy 4677 TATGAGCCAAAGTGTTAAGTGTGGAATGTGACTGAGGAGAAAGAACGCCAAGTCCCTG 4736
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Db 4757 TATGAGCCAAAGTGTTAAGTGTGGAATGTGACTGAGGAGAAAGAACGCCAAGTCCCTG 4816
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Qy 4737 GAGAGCGGTTTGGAGCTGACAGATGCAATGTGTGCTCTGTGTGAGAGTGGGCTTGTGGCC 4796
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Db 4817 GAGAGCGGTTTGGAGCTGACAGATGCAATGTGTGCTCTGTGTGAGAGTGGGCTTGTGGCC 4876
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Qy 4797 TGTGAGAAACGCAAAAGCGGCGCGAGGATTTGTTTGAAGTTTGCCTCTTCA 4856
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Qy 4857 CAGTGGGTTTACAGGGAATTTCCCTGTGGCTTTCTACTCTTAATGAAGTTCTTCCG 4916
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Qy 5157 AGGCTGTGTCTTCTCTATCTCACTCTGTCAAGGCCCAAGCTCTCAGTATTTAG 5216
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Db 5417 AGAATTTTAACTATTAACATATGTCTACTGATTTCTGTGTGTGTGTGTATGTT 5470
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RESULT 4
US-10-799-782-1
; Sequence 1, Application US/10799782
; Publication No. US20050107321A1
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; Risaue, Werner
; Millaener, Birgit
; Gazit, Aviv
; Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/799,782
FILING DATE: 15-Mar-2004
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/766,678
FILING DATE: 25-Jan-2001
APPLICATION NUMBER: 08/193,829
FILING DATE: 09-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-060
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5470 base pairs
TYPE: nucleic acid
STRADEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 286..4386
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-799-782-1

Query Match 99.2%; Score 5346; DB 9; Length 5470;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;

QY 1 CTGTGTCCTCCGACGCC-GGATTAACCTGTGACCGGATTCGCGGACACCGCTG-CAGCCG 58
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QY 59 GGGCTGAGGACGAGGCGCGCGCGCGCGCGCTCTCCCGGCTTGGCGTGGGGGCGCAT 118
DB 137 GGGCTGAGGACGAGGCGCGCGCGCGCGCGCTCTCCCGGCTTGGCGTGGGGGCGCAT 196
QY 119 ACCGCTCTGTGACTCTTGTGGCGGCGCAGGACGAGAGAGTGTGCTGAGAAACT 178
DB 197 ACCGCTCTGTGACTCTTGTGGCGGCGCAGGACGAGAGAGTGTGCTGAGAAACT 256
QY 179 GGGCTCTGTGCGCCAGGCGCGAGGTGACAGATGAGAGCAAGCGCTGCTAGCTGCTC 238
DB 257 GGGCTCTGTGCGCCAGGCGCGAGGTGACAGATGAGAGCAAGCGCTGCTAGCTGCTC 316
QY 239 TGTGTTCTGTGTTGAGACCCGAGCGCGCTGTGTGGTTTGACTGGCGATTTCTCCATC 298
DB 317 TGTGTTCTGTGTTGAGACCCGAGCGCGCTGTGTGGTTTGACTGGCGATTTCTCCATC 376
QY 299 CCCCCAGCTGACACACAGAAAGACATATGACATTTTGGCAATAACAACCTTCAGA 358
DB 377 CCCCCAGCTGACACACAGAAAGACATATGACATTTTGGCAATAACAACCTTCAGA 436
QY 359 TTACTTTCAGAGGAGACGCGGACCTGTGACTGGCTTTGGCCCAATGCTACAGGTGATTCTG 418
DB 437 TTACTTTCAGAGGAGACGCGGACCTGTGACTGGCTTTGGCCCAATGCTACAGGTGATTCTG 496
QY 419 AGGAAAGGTTATTTGTTGCTGAATGCGCGGTTGAGTATCTTCTGCAAAACACCTCA 478
DB 497 AGGAAAGGTTATTTGTTGCTGAATGCGCGGTTGAGTATCTTCTGCAAAACACCTCA 556
QY 479 CCATTTCCAGAGGTGTTGGAATGATATCTGAGCTTACAGAGTCTGTAACCGGACGTG 538
DB 557 CCATTTCCAGAGGTGTTGGAATGATATCTGAGCTTACAGAGTCTGTAACCGGACGTG 616

QY 539 ACATAGCTCCACTGTTTATGTATGTTCAGATTAACAGATTCACCATTCATCCGCTCTG 598
DB 617 ACATAGCTCCACTGTTTATGTATGTTCAGATTAACAGATTCACCATTCATCCGCTCTG 676
QY 599 TCATAGACACGATGCGATCTGTATCATCACCGGAAACAAGAACAACTGTGTGATCC 658
DB 677 TCATAGACACGATGCGATCTGTATCATCACCGGAAACAAGAACAACTGTGTGATCC 736
QY 659 CCTCCGAGGTCGATTTCAAACTCAATGTGTCTCTTTGGCTAGGATTCAGAAAAGA 718
DB 737 CCTCCGAGGTCGATTTCAAACTCAATGTGTCTCTTTGGCTAGGATTCAGAAAAGA 796
QY 719 GATTGTTCGAGTGAACAAGATTTCTCGGACAGCGAGATAGCTTACTCTCCCA 778
DB 797 GATTGTTCGAGTGAACAAGATTTCTCGGACAGCGAGATAGCTTACTCTCCCA 856
QY 779 GTTACATGATACGATAGCCGCGCATGTGCTCTGTGAGGCAAGATCAATGATGAACCT 838
DB 857 GTTACATGATACGATAGCCGCGCATGTGCTCTGTGAGGCAAGATCAATGATGAACCT 916
QY 839 ATCAGTCTATCATGATAGTGTGTGTGATATAGATTTATGATGTGATTCGA 898
DB 917 ATCAGTCTATCATGATAGTGTGTGTGATATAGATTTATGATGTGATTCGA 976
QY 899 GCCCCCGCATGAATTAAGCTATCTGCGGAGAAAACTTGTCTTAATTGTACAGCGA 958
DB 977 GCCCCCGCATGAATTAAGCTATCTGCGGAGAAAACTTGTCTTAATTGTACAGCGA 1036
QY 959 GAACAGAGCTCAATGTGGGCTGATTTCACTGCGACCTCCACCTTCAAGTCTCATC 1018
DB 1037 GAACAGAGCTCAATGTGGGCTGATTTCACTGCGACCTCCACCTTCAAGTCTCATC 1096
QY 1019 ATTAAGAGATTTGTAACCGGAGTGTGAACCTTTCTGCGACTGTGCGAAGATGTTT 1078
DB 1097 ATTAAGAGATTTGTAACCGGAGTGTGAACCTTTCTGCGACTGTGCGAAGATGTTT 1156
QY 1079 TGAGACCTTTGACATTAAGAAAGTGTGACCAAGATGACCAAGGGGAATACCTGTGTAG 1138
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DB 1277 TTATTGCTTTCGATAGTGTGAATCTTTGTGTGAAGCCACAGTGGCGATCAAGTCC 1336
QY 1259 GAATCCCTGTGAAGTATCTCAGTTACCCAGCTCTGTATATGAATGTGACAGAAATGAA 1318
DB 1337 GAATCCCTGTGAAGTATCTCAGTTACCCAGCTCTGTATATGAATGTGACAGAAATGAA 1396
QY 1319 GGCCCATTTGAGTCCAACTACCAATGATTTGTGTGCGATGAACTCACCATCATGGAAGTA 1378
DB 1397 GGCCCATTTGAGTCCAACTACCAATGATTTGTGTGCGATGAACTCACCATCATGGAAGTA 1456
QY 1379 CTGAAGAGATGACAGAAACTACACGCTCATCTCACCAACCCCATTTCAATGAGAAAC 1438
DB 1457 CTGAAGAGATGACAGAAACTACACGCTCATCTCACCAACCCCATTTCAATGAGAAAC 1516
QY 1439 AGAGCCACATGTGTCTCTGTGTGTGAATGTCCCAACCCAGATGTGTGAGAAAGCTTTGA 1498
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QY 1499 TCTGCGCTATGAGATTTCTTACACAGATAGGAGACATGAGACATTTGACATGACAGTCTACG 1558
DB 1577 TCTGCGCTATGAGATTTCTTACACAGATAGGAGACATGAGACATTTGACATGACAGTCTACG 1636
QY 1559 CCAACCTCTCCCTGACACACATCCAGTGTATCTGCGACCTAGAGAAAGCCTGCTCTACA 1618
DB 1637 CCAACCTCTCCCTGACACACATCCAGTGTATCTGCGACCTAGAGAAAGCCTGCTCTACA 1696
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Db 1697 GACCCGCGCAAAACAGCCGCTATGCTTGTAAAGATGAGAGACAGTGGAGGATTTCCAGG 1756
Qy 1679 GGGGAAACAAAGATCGAAGTCAACCAAAACCAATATGCGCTGATTGAAGAAAAACAAA 1738
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Qy 1739 CTGTAAAGTACGCTGTATCATCAAGTCCCAACGCTCAGCGGTGTAACAAATGTGAAGCCA 1798
Db 1817 CTGTAAAGTACGCTGTATCATCAAGTCCCAACGCTCAGCGGTGTAACAAATGTGAAGCCA 1876
Qy 1799 TCACAAAGCGGAGCAGAGAGAGAGGAGTCACTCTTCCATGTGATCAGGGGTCTGAAA 1858
Db 1877 TCACAAAGCGGAGCAGAGAGAGAGGAGTCACTCTTCCATGTGATCAGGGGTCTGAAA 1936
Qy 1859 TTACGTGTGAACCTGTGCGCCAGCCCACTGAGAGAGAGAGTGTCTCTGTGTGACATG 1918
Db 1937 TTACGTGTGAACCTGTGCGCCAGCCCACTGAGAGAGAGAGTGTCTCTGTGTGACATG 1996
Qy 1919 CAGACAGAAATACGTTTGAGAACTTCACGCTGTGACAAAGCTGGCTCACAGGCAACATCGG 1978
Db 1997 CAGACAGAAATACGTTTGAGAACTTCACGCTGTGACAAAGCTGGCTCACAGGCAACATCGG 2056
Qy 1979 TCACATGGGCGAATCACTCACACAGTTTGCAAGAACTTGAATGCTCTTTGGAAACTGA 2038
Db 2057 TCACATGGGCGAATCACTCACACAGTTTGCAAGAACTTGAATGCTCTTTGGAAACTGA 2116
Qy 2039 ATGGCAACCATGTTTTTTTAAACAGACAAATGACATCTTGATTTGGGCAATTCAGAAATGCT 2098
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Qy 2099 CTCTGAGAGACCAAGGCGACTATGTTGCTGCTGCTCAAGATAAGAAAGCAAGAAAGAC 2158
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Qy 2159 ATTGCTGTGCAACAGCTCATATCTTAAGAGGCAATGGCAACCCATGATCACCGAAATC 2218
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Qy 2339 TTGTACTGAGAGATGGGAAACCGGAACTTGAATTCGACAGGTTGAAGAAAGAGATGAG 2398
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Qy 2339 GCGCTTACACCTGCGACAGGCTGCAATGTCTTGGCTGTGCAAGAGCGGAGACGCTTTTCA 2458
Db 2477 GCGCTTACACCTGCGACAGGCTGCAATGTCTTGGCTGTGCAAGAGCGGAGACGCTTTTCA 2536
Qy 2459 TAAATGAAGGTGCCAGGAAAGAACCAACTTGAAGTCAATATCCCTGCGGCACTGAG 2518
Db 2537 TAAATGAAGGTGCCAGGAAAGAACCAACTTGAAGTCAATATCCCTGCGGCACTGAG 2596
Qy 2519 TGAATGCCATGTTCTTGTGGCTCTTCTGTGCAATGTCTTACAGAACCGTTAAAGCGGCGCA 2578
Db 2597 TGAATGCCATGTTCTTGTGGCTCTTCTGTGCAATGTCTTACAGAACCGTTAAAGCGGCGCA 2656
Qy 2579 ATGAAGGGGAACTGAAGACAGGCTACTTGCTATATGTCAATGATCCAGATGAATTTGCCCT 2638
Db 2657 ATGAAGGGGAACTGAAGACAGGCTACTTGCTATATGTCAATGATCCAGATGAATTTGCCCT 2716
Qy 2639 TGGATGAGCGCTGTAAACGCTTGCCTTATGATGCGACAAAGTGGAAATTCGCCAGGAGCC 2698
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Qy 3299 AATTTCTCTATTCGAGAGAAATGTGTGTTAATCTGTGATCTTGGCTTGGCCGGGACA 3358
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Qy 3359 TTTATTAAGACCCGAGATTAATGACAAAAAGAGATGCCCCGACTCCCTTTGAAGTGAATG 3418
Db 3437 TTTATTAAGACCCGAGATTAATGACAAAAAGAGATGCCCCGACTCCCTTTGAAGTGAATG 3496
Qy 3419 CCCGGAACCAATTTTGAACAGATTAACAAATTCAGAGCGATGTGTCTTTCGGTG 3478
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Qy 3857 CCCTGCTTACCTCACTGTCTTCTGTATGAGAGAAAGAAAGTGTGCAACCCCAATTC 3916

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QY 3959 CAGATGACAGCCAGACAGACAGTGGATGATCTTGCATCCAGAAAGAGTGAATCTGG 4018
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DB 4097 AAGACAGGAACAAATTAATCTCCATTTTGGTGAATGATGCCAGTAAAGAGAGAGT 4156
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QY 4737 GAGAGCGGTTGAGAGCTGCAATGATGCTGTGCTCTGTGAGAGTGGGCTGTGGCC 4796
DB 4817 GAGAGCGGTTGAGAGCTGCAATGATGCTGTGCTCTGTGAGAGTGGGCTGTGGCC 4876
QY 4797 TGTGAGAAAGCAAGGCGCGCGAGGTTGGTTTGAAGTTTGCATCTTCA 4856
DB 4877 TGTGAGAAAGCAAGGCGCGCGAGGTTGGTTTGAAGTTTGCATCTTCA 4936
QY 4857 CAGTCCGAGTTACAGGCGAGTTCCTGTGCGCTTCTACTCTAATGAGATTCCTTCG 4916
DB 4937 CAGTCCGAGTTACAGGCGAGTTCCTGTGCGCTTCTACTCTAATGAGATTCCTTCG 4996

QY 4917 GACTCTTACGTGTCTCTGGCTGGCCCGAGAGAAATGATCAGCTTCTCTTCT 4976
DB 4997 GACTCTTACGTGTCTCTGGCTGGCCCGAGAGAAATGATCAGCTTCTCTTCT 5056
QY 4977 CATCTCAGAGCTGTGCTTAATTCAGAACACCAAAAGAGAGAACTGGCAGAGCTC 5036
DB 5057 CATCTCAGAGCTGTGCTTAATTCAGAACACCAAAAGAGAGAACTGGCAGAGCTC 5116
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DB 5237 AGGTGTGTTCTTCTCTATCTCCATCTCTGTACAGGCCCCCAAGTCTCTAGTATTTAG 5296
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QY 5337 AGAATTTAACTTAATTAACATGATGATGTTTCCGCTGTGTGTTAGT 5390
DB 5417 AGAATTTAACTTAATTAACATGATGATGTTTCCGCTGTGTGTTAGT 5470

RESULT 5
US-09-919-408-5
Sequence 5, Application US/09919408
Patent No. US2002007207A1
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/919,408
FILING DATE: 31-Jul-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/977,451
FILING DATE: <Unknown>
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991

APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-919-408-5

Query Match 99.0%; Score 5336.8; DB 3; Length 5406;
Beet Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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QY 480 CATTCGAGAGGAG 539
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QY 540 CATAGCCTCAGCTGTTATGTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 599
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DB 900 CCCCCGATGAG 959
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QY 1500 CTGCGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1559
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QY 1560 CAACCTTCCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1619
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RESULT 6
US-09-872-136-5
Sequence 5, Application US/09872136
Patent No. US20020119545A1
GENERAL INFORMATION:
APPLICANT: Lemischke, Thor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varlick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/872,136
FILING DATE: 01-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/208,786
FILING DATE: <Unknown>
APPLICATION NUMBER: US/09/021,324
FILING DATE: <Unknown>
APPLICATION NUMBER: US/07/977,451
FILING DATE: 1992-11-19
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992

APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
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NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-872-136-5
Query Match 99.0%; Score 5336.8; DB 3; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;
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QY 780 TTACATGATCAGCTATGCGCGCATGTCTTGTGAGGCAAAAGATCAATGATGAACCTA 839
DB 780 TTACATGATCAGCTATGCGCGCATGTCTTGTGAGGCAAAAGATCAATGATGAACCTA 839
QY 840 TCACTATCATGATACATAGTGTGTGATGATATAGATATGATGATGATCTGAG 899
DB 840 TCACTATCATGATACATAGTGTGTGATGATATAGATATGATGATGATCTGAG 899
QY 900 CCCCCCGATGAATTTGAGCTATCTGCGGAGAAACCTTGTCTTAAATTTTACAGCAG 959
DB 900 CCCCCCGATGAATTTGAGCTATCTGCGGAGAAACCTTGTCTTAAATTTTACAGCAG 959
QY 960 AACAGACTCAATGTGGGCTTGAATTCACCTGCGACCTTCCACTTCAAGTCTCATCA 1019
DB 960 AACAGACTCAATGTGGGCTTGAATTCACCTGCGACCTTCCACTTCAAGTCTCATCA 1019
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DB 1020 TAAAGATGTGTAACCGGAGATGAAACCTTTTCTGGGACTGTGCGAAGATGTTTT 1079
QY 1080 GAGCAGCTTGACATTAAGAAATGTGACCAAGATGACCAAGGGAAATACCTGTGTGC 1139
DB 1080 GAGCAGCTTGACATTAAGAAATGTGACCAAGATGACCAAGGGAAATACCTGTGTGC 1139
QY 1140 GTCCAGTGAAGATGATCAAGAAATAGAACTTTGTCCGATTTCAACAAAGCTTT 1199
DB 1140 GTCCAGTGAAGATGATCAAGAAATAGAACTTTGTCCGATTTCAACAAAGCTTT 1199
QY 1200 TATTGCTTTGGTATGAGGATGAATCTTTGTGGAAGCCACAGTGGCAGTCAAGTCCG 1259
DB 1200 TATTGCTTTGGTATGAGGATGAATCTTTGTGGAAGCCACAGTGGCAGTCAAGTCCG 1259
QY 1260 AATCCCTGTGAAGTATCTAGTTACCAAGCTCTGGAATCAAAATGTGACAAATATGAG 1319
DB 1260 AATCCCTGTGAAGTATCTAGTTACCAAGCTCTGGAATCAAAATGTGACAAATATGAG 1319
QY 1320 GCCCATGAGTCCAACTACAAATGATTTGTGGAGTGAATCTCAACATCAGGAAGTAC 1379
DB 1320 GCCCATGAGTCCAACTACAAATGATTTGTGGAGTGAATCTCAACATCAGGAAGTAC 1379
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DB 1380 TGAAGAAGATGACAGAAACTACAGGTCATCTTCAACCAACCCATTTCAATGAGAAACA 1439
QY 1440 GAGCCATATGATCTCTGTGTGATATGTCCACCCCAAGTGGGTGAGAAAGCTTTGAT 1499
DB 1440 GAGCCATATGATCTCTGTGTGATATGTCCACCCCAAGTGGGTGAGAAAGCTTTGAT 1499
QY 1500 CTGCGCTATGATTTCTTACCAAGTATGAGAACATGACAGATTTGACATGACAGTCTACG 1559
DB 1500 CTGCGCTATGATTTCTTACCAAGTATGAGAACATGACAGATTTGACATGACAGTCTACG 1559
QY 1560 CAACCTTCCCTGACCAATCCAGTGTACTGGCAGCTAGAAAGCTGTCTCTACAG 1619

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Qy 1620 ACCCGGCCAAACAAAGCCCGTAAGCTTGTAAAGAAATGAGACACAGTGAAGATTTCCAGGG 1679
Db 1620 ACCCGGCCAAACAAAGCCCGTAAGCTTGTAAAGAAATGAGACACAGTGAAGATTTCCAGGG 1679
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Db 1740 TGTAGTACGCTGTGATCTCAAGCTGCCAACGCTGACGCTGTGACAAATGTGAAGCCAT 1799
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Db 1800 CAAACAAAGGGGACGAGAGAGAGGGTCAATCTCCCTCCATGTGATCAAGGGTCTCTAAAT 1859
Qy 1860 TACTGTCAACCTGCTGCCAGCCAACTGACAGAGAGTGTGCTCCCTGTTGTGCACTGC 1919
Db 1860 TACTGTCAACCTGCTGCCAGCCAACTGACAGAGAGTGTGCTCCCTGTTGTGCACTGC 1919
Qy 1920 AGACAGAAATACGTTTGAAGAACTCAAGTGTACAAAGCTTGCTCAAGGCAACATCGGT 1979
Db 1920 AGACAGAAATACGTTTGAAGAACTCAAGTGTACAAAGCTTGCTCAAGGCAACATCGGT 1979
Qy 1980 CCACATGGGGGGAATCACTCAACCAAGTTTGCAAGAACTTGATGCTCTTTGGAACTGAA 2039
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Db 2040 TGGACATGTTTCTTACAGACCAAAATGACATCTTATGTTGGCAATTCAGAAATGCTC 2099
Qy 2100 TTGCGAGACCAAGGGGCAATGTTTGTCTGCTCAAGATTAAGAACCAAGAAAAAGACA 2159
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Qy 2160 TTGCGTGTCAAAAGCTCATCATCTTAAGCGGCAATGGAACCCATATCAACGGAAATCT 2219
Db 2160 TTGCGTGTCAAAAGCTCATCATCTTAAGCGGCAATGGAACCCATATCAACGGAAATCT 2219
Qy 2220 GGAGAAATCAGAACCAACCATGCGAGACCAATTGAAGTGAAGCTTGCCAGCATCTGGAA 2279
Db 2220 GGAGAAATCAGAACCAACCATGCGAGACCAATTGAAGTGAAGCTTGCCAGCATCTGGAA 2279
Qy 2280 TCTTACCCCAACATTAACATGGTTCAAGACCAACGAGACCTGTGTGAAGATTCAGGCAT 2339
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Qy 2340 TGTACTGAGAGATGGGAACCGGAACCTGACTATCCGAGGGTGAAGAGAGAGATGGAGG 2399
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Qy 2400 CCTCTACACCTGCGAGGCTGCAATGTCTTGGCTGTGCAAGAGGGGAGACGCTCTTCAT 2459
Db 2400 CCTCTACACCTGCGAGGCTGCAATGTCTTGGCTGTGCAAGAGGGGAGACGCTCTTCAT 2459
Qy 2460 AATAGAGGTGCGCAGAGAAAGACCACTTGAAGTCAATTATCTCTGTGCGACCTGCAGT 2519
Db 2460 AATAGAGGTGCGCAGAGAAAGACCACTTGAAGTCAATTATCTCTGTGCGACCTGCAGT 2519
Qy 2520 GATTGCAATGTTCTTCTGCTGCTCTTGTGCTATGTGCTTACGGAACCGTTAAACGGGCCAA 2579
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Qy 2580 TGAAGGGGAACTGAAGACAGGCTACTGTCTATTGTCATGATCCAGATGAATTGCCCTT 2639
Db 2580 TGAAGGGGAACTGAAGACAGGCTACTGTCTATTGTCATGATCCAGATGAATTGCCCTT 2639
Qy 2640 GGATGAGCGCTGTGAACGCTTGCCTTATGATCCACAGAAATGGGAATTCGCCAGGAGACG 2699
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Qy 2700 GCTGAAACTAGAGAAAACCTTGTGCGCGCGGTGCTTCCGCAAGTATTAAGCAGACGC 2759
Db 2700 GCTGAAACTAGAGAAAACCTTGTGCGCGCGGTGCTTCCGCAAGTATTAAGCAGACGC 2759
Qy 2760 TTTTGGAAATTGAACAAGACAGGCACTTGCAAAAACAGTAAAGCGTCAAGATGTTGAAGAAG 2819
Db 2760 TTTTGGAAATTGAACAAGACAGGCACTTGCAAAAACAGTAAAGCGTCAAGATGTTGAAGAAG 2819
Qy 2820 AGCAACACACAGCGAGCATCGAGCCCTCATGTCTGAATCTCAAGATCTCATCCACATGG 2879
Db 2820 AGCAACACACAGCGAGCATCGAGCCCTCATGTCTGAATCTCAAGATCTCATCCACATGG 2879
Qy 2880 TCAACCATCTCAATGTGTGTAACCTCTAGAGCCCTGCAACAGCCGGAGGGCTCTCAT 2939
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Qy 3000 TGAATTTGTTCCCTTAAGAGCAAAAGGGCACGCTTCCGCAAGGCAAGACTACGTTGG 3059
Db 3000 TGAATTTGTTCCCTTAAGAGCAAAAGGGCACGCTTCCGCAAGGCAAGACTACGTTGG 3059
Qy 3060 GGAAGCTCTCGTGTGATCTGAAAAAGACGTTGGAACAGCATCACAGAGCAAGAGCTCTGC 3119
Db 3060 GGAAGCTCTCGTGTGATCTGAAAAAGACGTTGGAACAGCATCACAGAGCAAGAGCTCTGC 3119
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Db 3120 CAGCTCAGGCTTGTGTAAGAGAAATCGCTCAGTGTGTAAGAGAAAGAAAGCTTCTGA 3179
Qy 3180 AGAACTGTACAAAGACTTCTGACCTTGAGAGCATCATCTGTACAGCTTCAAGTGGC 3239
Db 3180 AGAACTGTACAAAGACTTCTGACCTTGAGAGCATCATCTGTACAGCTTCAAGTGGC 3239
Qy 3240 TAAAGGCAATGAGATCTTGGCATCAAGGAAGTGTATCCACAGGACCTTGACAGCAGAA 3299
Db 3240 TAAAGGCAATGAGATCTTGGCATCAAGGAAGTGTATCCACAGGACCTTGACAGCAGAA 3299
Qy 3300 CATTCCTCATGGAAGAAATGTGTGAATCTGTGACTTCGAGCTTGAGCCCGGAGCAT 3359
Db 3300 CATTCCTCATGGAAGAAATGTGTGAATCTGTGACTTCGAGCTTGAGCCCGGAGCAT 3359
Qy 3360 TTATAAAGCCCGGATTAATGTCAAGAAAGAGATCCCGACTCCCTTGAAGTGTAGTGC 3419
Db 3360 TTATAAAGCCCGGATTAATGTCAAGAAAGAGATCCCGACTCCCTTGAAGTGTAGTGC 3419
Qy 3420 CCGGGAACCAATTTTGAACAGATATACAAATTGAGAGCATGTGTGCTTTGGGTGT 3479
Db 3420 CCGGGAACCAATTTTGAACAGATATACAAATTGAGAGCATGTGTGCTTTGGGTGT 3479
Qy 3480 GTTGTCTGGGAAATATTTTCTTGTAGTGCTCCCATATCCCTGGGGGTCAAGATTGATGA 3539
Db 3480 GTTGTCTGGGAAATATTTTCTTGTAGTGCTCCCATATCCCTGGGGGTCAAGATTGATGA 3539
Qy 3540 AGAATTTTGTAGAGATTGAAGAGAACTTGAATGCGGGCTCTGACTACATACCCC 3599
Db 3540 AGAATTTTGTAGAGATTGAAGAGAACTTGAATGCGGGCTCTGACTACATACCCC 3599
Qy 3600 AGAAATGTACAGACCAATGCTGGAATGCTGTGGAATGAGAACCCCAACAGAGACCTTCGT 3659
Db 3600 AGAAATGTACAGACCAATGCTGGAATGCTGTGGAATGAGAACCCCAACAGAGACCTTCGT 3659
Qy 3660 TTCAAGTGTGTGAGCAATTTGGGAAACCTCTGCAACAAATGCGACAGAGATGGCA 3719
Db 3660 TTCAAGTGTGTGAGCAATTTGGGAAACCTCTGCAACAAATGCGACAGAGATGGCA 3719
Qy 3720 AGACTATATGTTCTTCAATGTCAAGACACTGAGCATGGAAGATTCGACCTGC 3779
Db 3720 AGACTATATGTTCTTCAATGTCAAGACACTGAGCATGGAAGATTCGACCTGC 3779

OY	3780	CCGCGCTACCTCAACCTGTTTCTCTGTATGAGGAAAGAGAAAGTGTCCAGCCCAAAATTTCCA	3833
Db	3780	CTGGCTACCTCACTGTTTCTGTATGAGGAAAGAGTGTCCAGCCCAAAATTTCCA	3839
OY	3840	TTATGACAAACAGCAGGAGATCAATCATTTATCTCCAGAACAGTAAGCCAAAGAGCCGACC	3839
Db	3840	TTATGACAAACAGCAGGAGATCAATCATTTATCTCCAGAACAGTAAGCCAAAGAGCCGACC	3899
OY	3900	AGTAGTGTAAAAAACAATTTGAAAGATATCCCATTTGAGGAAACAGAAAGTAAAAAGTATCC	3955
Db	3900	AGTAGTGTAAAAAACAATTTGAAAGATATCCCATTTGAGGAAACAGAAAGTAAAAAGTATCC	3959
OY	3960	AGATACAGCCAGACAGACAGTGGGATGGTCCCTTCATCAGAAAGCTGAAAAAATCTGGA	4019
Db	3960	AGATACAGCCAGACAGACAGTGGGATGGTCCCTTCATCAGAAAGCTGAAAAAATCTGGA	4019
OY	4020	AGACAGGAAACAATATATCTCCATCTTTTGTGGAAATGATGCCAGTAAAGCAGGAGTCC	4079
Db	4020	AGACAGGAAACAATATATCTCCATCTTTTGTGGAAATGATGCCAGTAAAGCAGGAGTCC	4079
OY	4080	TGTGACCTCGGAAAGGCTCCAAACAGACCAAGTGGCTAACAGTCTGGGTATCATCTCAGATGA	4139
Db	4080	TGTGACCTCGGAAAGGCTCCAAACAGACCAAGTGGCTAACAGTCTGGGTATCATCTCAGATGA	4139
OY	4140	CACAGACACCAACCGTGTACTCCAGGACGAGGACGAGACTTTTAAAGTGTGATGCTGC	4199
Db	4140	CACAGACACCAACCGTGTACTCCAGGACGAGGACGAGACTTTTAAAGTGTGATGCTGC	4199
OY	4200	AGTTACGCTGATCATGAGGAAACCAACATGCGTCCCTGTTTAAATGGAAGTGTCC	4258
Db	4200	AGTTACGCTGATCATGAGGAAACCAACATGCGTCCCTGTTTAAATGGAAGTGTCC	4259
OY	4259	TGTCCCGGCTCCGCCCAACTCCCTGGAATATCAGAGAGGTGCTGTATGATTTTCAA	4318
Db	4259	TGTCCCGGCTCCGCCCAACTCCCTGGAATATCAGAGAGGTGCTGTATGATTTTCAA	4319
OY	4319	GTTGTTGTTCTTTCCACCAACCCGGAAGTACCAATTTGATTTTTCATTTTGTGAGAGGGA	4378
Db	4320	GTTGTTGTTCTTTCCACCAACCCGGAAGTACCAATTTGATTTTTCATTTTGTGAGAGGGA	4379
OY	4379	CCTCAGATCGCAAGAGGCTTGCTCCAGAGGCAATTCAGAGAGATGCCCCATGACCCCAAG	4438
Db	4380	CCTCAGATCGCAAGAGGCTTGCTCCAGAGGCAATTCAGAGAGATGCCCCATGACCCCAAG	4439
OY	4439	AATGTGTGACTTACTCTCTTTTCCATTCATTTAAAGTCCCTATATATGTGCCCTGCT	4498
Db	4440	AATGTGTGACTTACTCTCTTTTCCATTCATTTAAAGTCCCTATATATGTGCCCTGCT	4499
OY	4499	GTTGCTCATCAACCACTTAAGCAAAACAATTTCAAACAGTGGACCTGTGCTCCCAAGA	4558
Db	4500	GTTGCTCATCAACCACTTAAGCAAAACAATTTCAAACAGTGGACCTGTGCTCCCAAGA	4559
OY	4559	AGTGGCAACGGCACCTCTGTGAAACTGATCGAATGGGCAATGCTTTGTGTGTGAGGAT	4618
Db	4560	AGTGGCAACGGCACCTCTGTGAAACTGATCGAATGGGCAATGCTTTGTGTGTGAGGAT	4619
OY	4619	GGGTAGATATGTCCCAAGGCGCGAGTGTGTACCTTTGAGAGGCTTTGTGAGAGATGCGGCTA	4678
Db	4620	GGGTAGATATGTCCCAAGGCGCGAGTGTGTACCTTTGAGAGGCTTTGTGAGAGATGCGGCTA	4679
OY	4679	TGAGCCAAAGTGTAAATGTGGGATGTGACCTGGGAGAAAGGCGCAAGTGCCTCGGA	4738
Db	4680	TGAGCCAAAGTGTAAATGTGGGATGTGACCTGGGAGAAAGGCGCAAGTGCCTCGGA	4739
OY	4739	GAGCGGTTGGAAGCTTCAGATGCAATGTGCTGGCTCTGTGTGAAGGTGGCTTGTGGCTGT	4799
Db	4740	GAGCGGTTGGAAGCTTCAGATGCAATGTGCTGGCTCTGTGTGAAGGTGGCTTGTGGCTGT	4799
OY	4799	TCAGGAAACGAAAGGCGCGGCAAGGATTTGGTTTGGAAAGTTTGGTGTCTCTTACA	4858
Db	4800	TCAGGAAACGAAAGGCGCGGCAAGGATTTGGTTTGGAAAGTTTGGTGTCTCTTACA	4859

QY	4859	GTGGGGTTAAGGGGAGTGTCCCTGTGGAGTTTCTTACTCCCTAAAGAGAATTCCTCCGGA	4918
Db	4860	GTGGGGTTAAGGGGAGTGTCCCTGTGGAGTTTCTTACTCCCTAAAGAGAATTCCTCCGGA	4919
QY	4919	CTCTTAAGTGTCTCTGGCCCTGGCCCCAGAGAGAAATGATGCAGCTTGCTCTTCTCA	4978
Db	4920	CTCTTAAGTGTCTCTGGCCCTGGCCCCAGAGAGAAATGATGCAGCTTGCTCTTCTCA	4979
QY	4979	TCTCTCAAGGCGTGRCCCTTAATTCAGAACACCAAAAGAGAGAGAGTGCGGACAGAGCTCCT	5038
Db	4980	TCTCTCAAGGCGTGRCCCTTAATTCAGAACACCAAAAGAGAGAGAGTGCGGACAGAGCTCCT	5039
QY	5039	GACGGGGCCGAGAAATGTGAGAACAGAACAGAAACTCAGGGTTTCTGTGGGTGAGAC	5098
Db	5040	GACGGGGCCGAGAAATGTGAGAACAGAACAGAAACTCAGGGTTTCTGTGGGTGAGAC	5099
QY	5099	CCAGTGGCGCCCTGTGGGAGCGTCTGAGGTTTCTGTCAAGTGGGGGCTTAAAGCTCAG	5158
Db	5100	CCAGTGGCGCCCTGTGGGAGCGTCTGAGGTTTCTGTCAAGTGGGGGCTTAAAGCTCAG	5159
QY	5159	GCTGTGTCTTCTCTATCTCACTCTGTGACAGCCCCCAAGTCTCAGTATTTTAACT	5218
Db	5160	GCTGTGTCTTCTCTATCTCACTCTGTGACAGCCCCCAAGTCTCAGTATTTTAACT	5219
QY	5219	TTGTGGCTTCTGTATGCGAAGAAAATCTTAAATTTGGTTGGTTTGGTCTTCCCGAATAACT	5278
Db	5220	TTGTGGCTTCTGTATGCGAAGAAAATCTTAAATTTGGTTGGTTTGGTCTTCCCGAATAACT	5279
QY	5279	AGCAGATTTTGAATTAATCTTTTAAAGCGAGGTTATATAACATCTACTGATCCTTAAAG	5338
Db	5280	AGCAGATTTTGAATTAATCTTTTAAAGCGAGGTTATATAACATCTACTGATCCTTAAAG	5339
QY	5339	AATTTTAACTATAAACATATGTCTACTGGTTTGTGCTGTGTGCTTATATTT	5390
Db	5340	AATTTTAACTATAAACATATGTCTACTGGTTTGTGCTGTGTGCTTATATTT	5391

RESULT 7

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; Sequence 5, Application US/10639603

Publication No. US20050003365A1

GENERAL INFORMATION:

APPLICANT: Lemischka, Inor K.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL

LINE OF INVENTION: POLYMER MEMBRANES FOR RECEPTORS AND THEIR LIGANDS

RECEIPTS AND THEIR DISBURS
NUMBER OF SENTENCES, 10

CORRESPONDENCE ADDRESS:

ADDRESS: TMC]one Systems Incorporated

STREET: 180 Varick Street

CITY: New York

STATE: New York

COUNTRY: U.S.A.

ZIP: 10014

COMPUTER READABLE

MEDIUM TYPE

COMPUTER:

OPERATING

SOFTWARE:

CURRENT APPLICANTS

APPLICATIO
;

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AFFILIATION

FIELDING DATA
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APPLICATIO

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FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
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REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mac_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-639-603-5
Query Match 99.0%; Score 5336.8; DB 8; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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960 AACAGAGCTCAATGTGGGGCTTGAATTCACCTGGACCTCTCCACCTTCACCAAGCTCATCA 1019
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1140 GTCCAGTGGACGGATGATCAAGAAATAGAACATTTGTCCGAGTTTCAACAAAGCTTTT 1199
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1200 TATTGCTTTCCGTATGAGGATGAATCTTTTGTGGAAGCCACAGTGGGCAATCAAGTCCG 1259
1260 AATCCCTGGAAGTATCTCAGTTTACCGAGCTCTGATATCAAAATGTAACAGAAATGGAAG 1319
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1440 GAGCCACATGCTCTCTGTTGTGATGATGCCAACCCAGATCGGTGAGAAAGCTTGAT 1499
1440 GAGCCACATGCTCTCTGTTGTGATGATGCCAACCCAGATCGGTGAGAAAGCTTGAT 1499
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1500 CTCGCTTATGATTTCTTACAGATATGGGACCAATGACATTTGATCATGATCATGATCATG 1559

Qy 1560 CAACCTCCCTGACCAATCCAGTGTACTGGAGCTAGAGAAAGCTGTCTCTACAG 1619
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Qy 1620 ACCCGCCAAACACACCCGTATGCTTTGTAAGAAATGGAGACACGTGGAGATTTTCCAGG 1679
Db 1620 ACCCGCCAAACACACCCGTATGCTTTGTAAGAAATGGAGACACGTGGAGATTTTCCAGG 1679
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Db 1680 GGGAAACAAAGATCGAAGTCAACCAAAACCAATATGCCCTGATTGAAGAAAAACAATC 1739
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Db 1800 CAACAAACCGGACAGAGAGAGAGAGGTATCTCTTCCATGTGATCAGAGGCTCTGAAT 1859
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Db 1860 TACTGTGACACTGTGTGCCAGCCAACTGAGCAGAGAGTGTCTCTGTGTGCACTGC 1919
Qy 1920 AGACAGAAATACGTTTGAAACCTTCACGTGTGTAACAGCTTGTGCTCACAGGCAATCGGT 1979
Db 1920 AGACAGAAATACGTTTGAAACCTTCACGTGTGTAACAGCTTGTGCTCACAGGCAATCGGT 1979
Qy 1980 CCACATGGGCGAATACATCCACACAGCTTTCAGAGAACTTGAATGCTCTTTGGAACTGAA 2039
Db 1980 CCACATGGGCGAATACATCCACACAGCTTTCAGAGAACTTGAATGCTCTTTGGAACTGAA 2039
Qy 2040 TGGCACTATGTTTCTAAGACGACCAATGACATCTTGAATGTGGCATTTAGAAATGCTC 2099
Db 2040 TGGCACTATGTTTCTAAGACGACCAATGACATCTTGAATGTGGCATTTAGAAATGCTC 2099
Qy 2100 TCTGACGACCAAGGCGACATGTTTGTCTGCTCAGATTAAGAAAGCA 2159
Db 2100 TCTGACGACCAAGGCGACATGTTTGTCTGCTCAGATTAAGAAAGCA 2159
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|||||
RESULT 8
US-11-030-539-5
; Sequence 5, Application US/11030539
; Publication No. US20050176102A1
; GENERAL INFORMATION:
; APPLICANT: Lemischke, Thor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; RECEPTORS AND THEIR LIGANDS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; STREET: 180 Varick Street
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Piopy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/030,539
; FILING DATE: 05-Jan-2005
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; APPLICATION NUMBER: US/07/977,451
; FILING DATE: 19-NOV-1992
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; FILING DATE: 12-NOV-1992
; APPLICATION NUMBER: US 07/906,397
; FILING DATE: 26-JUN-1992
; APPLICATION NUMBER: US PCT/US92/05401
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FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
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APPLICATION NUMBER: US 07/813,593
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APPLICATION NUMBER: US 07/793,065
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APPLICATION NUMBER: US 07/728,913
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APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
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NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-11-030-539-5
Query Match 99.0%; Score 5336.8; DB 10; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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3660 TTAAGATTTGTGAGAGATTTGGAAACCTCTGCAAGCAATGTGCAAGAGATGAGCA 3719
3660 TTAAGATTTGTGAGAGATTTGGAAACCTCTGCAAGCAATGTGCAAGAGATGAGCA 3719
3660 TTCAAGATTTGTGAGAGATTTGGAAACCTCTGCAAGCAATGTGCAAGAGATGAGCA 3719

OY	3720	AGACATATTTGTTCTTCCAAATGTGAGAGCACTGAGCATGGAAGAGATTCCTGACTCTC	3779
Db	3720	AGACTATATTTGTTCTTCCAAATGTGAGAGCACTGAGCATGGAAGAGATTCCTGACTCTC	3779
OY	3780	CCTGCTCACTCACTGTTTCTCTATGAGAGGAAAGTGTGCGACCCCAATTTCCA	3839
Db	3780	CCTGCTCACTCACTGTTTCTCTATGAGAGGAAAGTGTGCGACCCCAATTTCCA	3839
OY	3840	TTATACAACAACAGAGAAATGATCATTTATCTCCAGAACAGTAAAGCGMAAGAGCCGGCC	3899
Db	3840	TTATACAACAACAGAGAAATGATCATTTATCTCCAGAACAGTAAAGCGMAAGAGCCGGCC	3899
OY	3900	AGTAGGTGTAATAAAATTTGAAAGATATCCATTTGAGAGAACAGAACTGAAAAGTATCC	3955
Db	3900	AGTAGGTGTAATAAAATTTGAAAGATATCCATTTGAGAGAACAGAACTGAAAAGTATCC	3955
OY	3960	AGATACACGCCGAGACAGACAGTGGATGGTCTTGCATCAGAGAGCTGAAAATCTTGG	4019
Db	3960	AGATACACGCCGAGACAGACAGTGGATGGTCTTGCATCAGAGAGCTGAAAATCTTGG	4019
OY	4020	AGACAGAAACAAATATCTCCATCTTTGGTGGATGATGCCCAGTAAAGAGAGGAATC	4079
Db	4020	AGACAGAAACAAATATCTCCATCTTTGGTGGATGATGCCCAGTAAAGAGAGGAATC	4079
OY	4080	TGTGGCTTCGGAAGGCTCCAAACAGACAGTGGCTACCAAGTCTGGATATCACTCAGATG	4139
Db	4080	TGTGGCTTCGGAAGGCTCCAAACAGACAGTGGCTACCAAGTCTGGATATCACTCAGATG	4139
OY	4140	CACAGACACACCCGTGTACTCAGGAGAGAGGACAGACTTTTAAAGATGTGTGATGCTGC	4199
Db	4140	CACAGACACACCCGTGTACTCAGGAGAGAGGACAGACTTTTAAAGATGTGTGATGCTGC	4199
OY	4200	AGTTACACCTGTACTAGGAGACCACTGC - GCTCACTCTGTGTTAAATGGAAGTGCCTC	4258
Db	4200	AGTTACACCTGTACTAGGAGACCACTGC - GCTCACTCTGTGTTAAATGGAAGTGCCTC	4258
OY	4260	AGTTACAGCTGACTAGGAGACCACTGCAGCTCACTCTGTGTTAAATGGAAGTGCCTC	4319
Db	4260	AGTTACAGCTGACTAGGAGACCACTGCAGCTCACTCTGTGTTAAATGGAAGTGCCTC	4319
OY	4319	GTTGTTGTTCTTTCCACACACCCGGAAGTGTGACCACTTGAATTTTCAATTTTGGAGAGGA	4378
Db	4319	GTTGTTGTTCTTTCCACACACCCGGAAGTGTGACCACTTGAATTTTCAATTTTGGAGAGGA	4378
OY	4379	CCTCAGACTGCAAGGAGCTGTCTCAGGAGCAATTTCAAGAGAGATGCCATGACCCAAAG	4438
Db	4379	CCTCAGACTGCAAGGAGCTGTCTCAGGAGCAATTTCAAGAGAGATGCCATGACCCAAAG	4438
OY	4439	AATGTGTGACTGTACTCTCTTTTCCATTTAAATGCTCTATATTAATGTGCCCTGCT	4499
Db	4439	AATGTGTGACTGTACTCTCTTTTCCATTTAAATGCTCTATATTAATGTGCCCTGCT	4499
OY	4499	GTTGTTCTCACTAACAGTTAAAGCAAAAGATTTCAACACGTGACCTGTCTCTCAAGA	4558
Db	4499	GTTGTTCTCACTAACAGTTAAAGCAAAAGATTTCAACACGTGACCTGTCTCTCAAGA	4558
OY	4559	AGTGGCAACGGCACTCTGTGAAATCTGATGGAATGGCAATGCTTTGTGTGTGAGAT	4619
Db	4559	AGTGGCAACGGCACTCTGTGAAATCTGATGGAATGGCAATGCTTTGTGTGTGAGAT	4619
OY	4619	GGGTGAGATGTCCCAAGGGCCGAGTGTGTCTACCTTTGAGAGGCTTTGTGAGGATGCGGCTA	4678
Db	4619	GGGTGAGATGTCCCAAGGGCCGAGTGTGTCTACCTTTGAGAGGCTTTGTGAGGATGCGGCTA	4678
OY	4679	TGAGCCAAGTGTAAATGTGGAGATGTGACTGTGAGAGAGAGAGGCGCAAGTCTGCTGGA	4738
Db	4679	TGAGCCAAGTGTAAATGTGGAGATGTGACTGTGAGAGAGAGAGGCGCAAGTCTGCTGGA	4738
OY	4739	GAGCGGTGGAACCTGCAAGATGCAATTTGTGCTGTGCTGTGTGAGAGTGGGCTTTGTGCTGTG	4798
Db	4739	GAGCGGTGGAACCTGCAAGATGCAATTTGTGCTGTGCTGTGTGAGAGTGGGCTTTGTGCTGTG	4798

QY	4799	TCAGGAAACGCAAAAGCGGCGCGAGGGTTGGTTTGGAAAGTTTGCGTCTTCA	4858
Db	4800	TCAGGAAACGCAAAAGCGGCGCGAGGGTTGGTTTGGAAAGTTTGCGTCTTCA	4859
QY	4859	GTCGGGTTTACAGCGAGTTCCCTGTGGCGTTTCTACTCTTAATGAGATTCTTCGGA	4918
Db	4860	GTCGGGTTTACAGCGAGTTCCCTGTGGCGTTTCTACTCTTAATGAGATTCTTCGGA	4919
QY	4919	CTCTTACGTCGTCTCTGGCGCTGGCGCCCGAGGAAATGATGACGTTGCTCTTCTCA	4978
Db	4920	CTCTTACGTCGTCTCTGGCGCTGGCGCCCGAGGAAATGATGACGTTGCTCTTCTCA	4979
QY	4979	TCTCTCAGGCTGTGCTTAATTCAGAACCCAAAAGAGAGAACGTCCGACAGGCTCCT	5038
Db	4980	TCTCTCAGGCTGTGCTTAATTCAGAACCCAAAAGAGAGAACGTCCGACAGGCTCCT	5039
QY	5039	GACGGGGCCGCAAGAAATTTGTGAGACAGAAACAGAAATCTAGGGTTTCTGCTGGTGGAGC	5098
Db	5040	GACGGGGCCGCAAGAAATTTGTGAGACAGAAACAGAAATCTAGGGTTTCTGCTGGTGGAGC	5099
QY	5099	CCAGCTGGCGCCCTGTGGTGGAGAGTCTGAGGGGTTTCTGTCAAGTGGCGGTAAAGCTCAG	5158
Db	5100	CCAGCTGGCGCCCTGTGGTGGAGAGTCTGAGGGGTTTCTGTCAAGTGGCGGTAAAGCTCAG	5159
QY	5159	GCTGGTGTCTTCTCTTATCTTCACACTCTCTGTCAGGCCCCCAAGTCTCAGTATTTTACGT	5218
Db	5160	GCTGGTGTCTTCTCTTATCTTCACACTCTCTGTCAGGCCCCCAAGTCTCAGTATTTTACGT	5219
QY	5219	TTTGCGGCTTCCGATNGGAGAGAAATCTTAATGGTGGTTTGGTCTCCAGATTAATCACT	5278
Db	5220	TTTGCGGCTTCCGATNGGAGAGAAATCTTAATGGTGGTTTGGTCTCCAGATTAATCACT	5279
QY	5279	AGCCAGATTTGCAAAATTAATCTTTTATGCGAGGTTATGATAATCATCTACTATCTCTTATG	5338
Db	5280	AGCCAGATTTGCAAAATTAATCTTTTATGCGAGGTTATGATAATCATCTACTATCTCTTATG	5339
QY	5339	AATTTTAACCTATAAACTATGTCTACTGCGTTTCTGCTGTGTCTTATGTT	5390
Db	5340	AATTTTAACCTATAAACTATGTCTACTGCGTTTCTGCTGTGTCTTATGTT	5391
RESULT 9			
US-10-741-600-643			
; Sequence 643, Application US/10741600			
; Publication No. US20050026169A1			
; GENERAL INFORMATION:			
; APPLICANT: CARGILL, Michele et al.			
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH			
; FILE REFERENCE: CLO001499			
; CURRENT APPLICATION NUMBER: US/10/741,600			
; CURRENT FILING DATE: 2003-12-22			
; NUMBER OF SEQ ID NOS: 73997			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 643			
; LENGTH: 5832			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-10-741-600-643			
Query Match			
Beat Local Similarity 78.7%; Pred. No. 0;			
Matches 4328; Conservative 12; Mismatches 1003; Indels 158; Gaps 21;			
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Db	104	CTGGATATCTCTCTTACCGGACCCGACAGCGCCCTGAGCCGCGCTGAGCCAGGG	163
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Db	164	CTCCCTAACCCCTGTGCGCTCAACGTCTCTGCGCTGGGGGTCGCCGAGTTCACTCTCG	223
QY	129	TGACTTCTTTGCGGGCCAGGACGAGAGAGAGTCTGTGCTTGAAGAACTGGGCTCTGTG	188

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RESULT 11

US-10-116-802-18
; Sequence 18, Application US/10116802
; Publication No. US20030065157A1
; GENERAL INFORMATION:
; APPLICANT: Amy Lasek
; TITLE OF INVENTION: GENES EXPRESSED IN LUNG CANCER
; FILE REFERENCE: PA-0045 US
; CURRENT APPLICATION NUMBER: US/10/116,802
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 60/281,593
; PRIOR FILING DATE: 2001-04-04
; NUMBER OF SEQ ID NOS: 519
; SOFTWARE: PERL Program
; SEQ ID NO 18
; LENGTH: 5832
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 247817.4
US-10-116-802-18

Query Match 62.2% Score 3354.4; DB 5; Length 5832;
Best Local Similarity 78.8%; Pred. No. 0; Mismatches 1006; Indels 159; Gaps 22;
Matches 4337; Conservative 0;

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RESULT 12
US-09-967-655-3
; Sequence 3, Application US/09967655
; Publication No. US20030092649A1
; GENERAL INFORMATION:
; APPLICANT: Andrew T. Matt
; APPLICANT: C. Frank Bennett
; TITLE OF INVENTION: ANTISENSE MODULATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPT
; FILE REFERENCE: RTS-0227
; CURRENT APPLICATION NUMBER: US/09/967,655
; CURRENT FILING DATE: 2001-09-28
; NUMBER OF SEQ ID NOS: 95
; SEQ ID NO 3

/ LENGTH: 5830
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (304) .. (4374)
US-09-967-655-3

Query Match 61.6%; Score 3317.8; DB 3; Length 5830;
Best Local Similarity 78.4%; Pred. No. 0;
Matches 4314; Conservative 0; Mismatches 1027; Indels 160; Gaps 22;

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5081 TTTCTGTGTGTGAGAGCCAGTGC-----GCCCTGTGTGTGAGAGTCT 5124
5240 TTTCTGTGTGTGAGAGCCAGTGC-----GCCCTGTGTGTGAGAGTCT 5299
5125 GAGGCTTCTGTGAA-----GTGGGAGTAAAGCTCAGGCTGTGTGTCTCTAT 5177
5300 GAGGCTTCTGTGAAAGCTGTGTGTGTGAAAGTCTCAAGAGAGATTTTACCTTTTG 5359
5178 CTCACCTC-----TGTGAGGCGCCAGAGTCTCAGATTTTATGCTTTGTG 5223

Db 5360 TTTCTTCCCTGTGCTCCCAACCACTGTACCCCGAGACCACTAGATTTTATTTTG 5419
Qy 5224 GCTTCTGATGAGCAAAATTTTAAATGTTGTGTGTGTGTGTGTGTGTGTGTGTGT 5283
Db 5420 G---CCTTACTCTCAAGTAAAGCTGATGTTGTGTGTGTGTGTGTGTGTGTGTGT 5476
Qy 5284 GATTTGAAATTTTACTTTTATGCGAGGTTATGATTAATCACTGATCTGTAGAAATT 5343
Db 5477 GACTTCAAAATTTTATTTATAGCCA--AATTAATCACTGATTTGATTTATTTAGCTTT 5533
Qy 5344 TTAACCTATTAACCTATGTCTACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 5384
Db 5534 TAAATATATGAGCTATTTCTACTGATTTTGTGCTGTGTGTGTGTGTGTGTGTGT 5574

RESULT 13
US-10-159-563-338
; Sequence 338, Application US/10159563
; Publication No. US20040009154A1
; GENERAL INFORMATION:
; APPLICANT: Kian, Javed
; APPLICANT: Ringner, Markus
; APPLICANT: Peterson, Carsten
; APPLICANT: Meltzer, Paul
; TITLE OF INVENTION: SELECTIONS OF GENES AND METHODS OF USING THE SAME FOR
; FILE REFERENCE: 11613, 56US11
; CURRENT APPLICATION NUMBER: US/10/159,563
; PRIOR FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 10/133,937
; NUMBER OF SEQ ID NOS: 444
; SOFTWARE: Patencin version 3.1
; SEQ ID NO 338
; LENGTH: 5830
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-159-563-338

Query Match 61.6%; Score 3317.8; DB 6; Length 5830;
Best Local Similarity 78.4%; Pred. No. 0;
Matches 4314; Conservative 0; Mismatches 1027; Indels 160; Gaps 22;
Qy 14 CCGATTAACCTGAGTGAAGCCATTTCCGAGACAGCGCTGACCG-CCGCTGAGACAG 72
Db 104 CTGATATCTCTCTTCTTACCGGACCCGAGAGCGCTGACCGCCGCTGCGCGCCG 163
Qy 73 GCGCGGAGCCCGGCTCTCCCGGCTGTGCGCTGCGGAGGCA-----TACCGCTCT 127
Db 164 GCTCTCTGAGCTGTGTGCTTCACTGTCTGTGCGGAGGCTGCGGAGGCTTCACTTCC 223
Qy 128 GTGACTTTTGTGCGGCGAGGACGAGAGAGAGTCTGTCTGAGAACTGAGGCTGT 187
Db 224 GCGCTCTCTCTTCTGAGACAGGCGCTGGAGAAAGACCGGCTCCGAGTTCGGCAATT 283
Qy 188 GCCCAGGCGGAGGTGAGATGAGAGACAGAGGCTGTACTGTCTGTGTGTGTGTGT 247
Db 284 GCGCGGCTGAGGTGAGAGAGTGAAGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 343
Qy 248 GCGTGAAGACCGGAGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 307
Db 344 GCGTGAAGACCGGAGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 403
Qy 308 TCAGCACAAGAAAGATTAATGATTTTGGCAATTAACACCTTGAATTAATTTAGTGA 367
Db 404 TCAGCACAAGAAAGATTAATGATTTTGGCAATTAACACCTTGAATTAATTTAGTGA 463
Qy 368 GAGGACAGGAGCTGTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 427
Db 464 GAGGACAGGAGCTGTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 523
Qy 428 TATTTGATGATGATGCGGCGGTGTGACAGATCTTGTGAAACACTGACATTTCCA 487

Db 524 TGAAGTACTGAGTGCAGCGATG-----GCCCTTCTGTAAAGCACTCCAAATTCGCA 577
Qy 488 GGGTGTGGAAATGATCTGGAGCCTA CAAGTGTCTGTAACGGGAGCGTCCAGATAGCT 547
Db 578 AAGTGATGGAATATCACTGGAGCCTTAAGTGTCTTCTTAACGGGAAACCTGCTGGCT 637
Qy 548 CCACTGTTATGTCTATGTTCGAGATTAACAGATCAACATTCATCGCTCTGTCACTGACC 607
Db 638 CGGTCAATTAATGTATGTTCGAGATTAACAGATTCATTCATTCCTCTGTATGATGACC 697
Qy 608 AGCATGCGATGCTGTACATCAACCGAACAAGAAACAAACCTGTGTATCCCTGCGAG 667
Db 698 AACTGAGTGTGTACATTACTGGAACAAACAAACCTGTGTATCCATGCTCCG 757
Qy 668 GGTGATTTCAACCTCAATGTGTCTTTGGCTAGGATCCAGAAAAGATTTGTTTC 727
Db 758 GGTCAATTTCAAAATTCACGCTGTCACTTTGTGCAAGATCCAGAAAAGATTTGTTTC 817
Qy 728 CGGATGGAACGAAATTTCTGGGACAGCGAGATAGGCTTTACTCTCCCAAGTTACATGA 787
Db 818 CTGATGTACAGAAATTTCTGGGACAGCAAGAAAGGCTTTACTATTCACAGCTACATGA 877
Qy 788 TCAGTATGCGGCGATGCTCTTCTGTGAGGCAAGATCAATGATGAAACCTATCATCTTA 847
Db 878 TCAGCTATGCTGGCATGTGCTTCTGTGAAAGCAAAATTAATGATGAAAGTTACCACTTA 937
Qy 848 TCATGTACATAGTTGTGTGTAGGATTAAGATTTATGATGTGATTCGAGCCCCGCG 907
Db 938 TTAATGTACATAGTTGTGTGTAGGATTAAGATTTATGATGTGATTCGAGCCCCGCG 997
Qy 908 ATGAATTTAGCTATCTGCGGAGAAACCTGTCTTAATTTGTAACGCGAACAAGC 967
Db 998 ATGGAATTTAGCTATCTGTGGAGAAAGCTGTCTTAATTTGTAACGCGAACAAGC 1057
Qy 968 TCAATGTGGGCTGATTTTCACTGGCACTCTCCACTTCAAGCTCTCATTAAGAA 1027
Db 1058 TAAATGTGGGATTTGACTTCAACCTGGAAATACCTTCTTCAAGGATGAGATTAAGAAAC 1117
Qy 1028 TTTGTAACCGGGATGTGAAACCTTTCTGGGACTGTGGCGAAGATGTTTTGAGACCT 1087
Db 1118 TTTGTAACCGGAGACTTAABAAACCGAGCTGTGGAGTGAATGAAGAAATTTTGAACCT 1177
Qy 1088 TGAATATGAAGTGTGACCAAGAGTGAACCAAGGGAATACACTGTGTAGCGTCACTG 1147
Db 1178 TAACTATGATGTGTGTACCGGAGTGAACCAAGATTTGTAACCTGTGACAGATCACTG 1237
Qy 1148 GACCGATGATCAAGGAATTAAGAACTTTGTCCGAGTTCAACAAGCTTTTATGTCT 1207
Db 1238 GGTGATGACCAAGGAAGACAGCAATTTGTCAAGGCTCATGAAACCTTTTGTGCTT 1297
Qy 1208 TCGGATGAGGATGAATCTTTGTGGAAGCCACAGTGGGCAAGTCAATCCGAATCCCTG 1267
Db 1298 TTTGAAAGTGGATGAAATCTCTGTGTGAAGCCACGATGGGGAGGTGTCAAGATCCCTG 1357
Qy 1268 TGAAGTATCTGATTAACCTGCTCTGTATTAATTAATGTTACAGAAATGAAGGCCCAT 1327
Db 1358 CGAAGTACCTTGGTTAACCCACCCCAAGAAATTAATTAATTAATTAATTAATTAATTA 1417
Qy 1328 AGTCAACTACAAATGATTTGTGGCGATGAACTCAACATCATGGAATGTACTGAAAG 1387
Db 1418 AGTCAACTACAAATTAAGCGGGGCAATGTACTGACGATTAATGAAATGTGTAAG 1477
Qy 1388 ATGCAAGAACTACAGGCTCAATCTCAACAACCCCATTTCAATGGAGAAACAGAGCCCA 1447
Db 1478 ACACAGAAATTAACCTGTCTTCTTACCAATCCATTTCAAGAGAAAGAGAGCCATG 1537
Qy 1448 TGTGTCTCTGTGTGTGAATGTCCACCCAGATGTGTGAAGAAAGCTTGTATCTTCCTTA 1507
Db 1538 TGTGTCTCTGTGTGTGTATGTCCACCCAGATGTGTGAAGAAATCTTAATCTCTCTG 1597
Qy 1508 TGTATTTCTTACAGATGTGGAAACATGACAGATTTGACATGCAAGTCTAACCCCACTTC 1567

Db 1598 TGAATTCCTAACAGTACGGCAACAACCTGAACATGATCGGTCTATGCCATTCCTC 1657
Qy 1568 CCTGCAACACATCTCAGTGTACTGCGAGCTAGAGAAAGCCTGTCTCTTACAGACCCGCGC 1627
Db 1658 CCCCGCATCATCTCACTGTGATTTGGAGTGGAGAAAGATGTGCCCAACAGACCCAGCC 1717
Qy 1628 AA-----ACAAGCCGTATGCTTGTAAAGATGAGACAAGTGAAGATTTCC 1675
Db 1718 AAGCTGTCTCAGTACAAACCATATCTGTGAAGATGAGAAATGTGAGAGCTTCC 1777
Qy 1676 AGGGGGGAAACAAATGGAAGTGCACAAAACCAATATGCCCTGATTTGAAGAAAAACA 1735
Db 1778 AGGAGGAAATTAATTAAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1837
Qy 1736 AAATCTGAAGTACGCTGTGATCCAAAGTGCACAAAGTGCAGCTTGTGTAACAAATGTGAAG 1795
Db 1838 AAATCTGAAGTACGCTGTGATCCAAAGTGCACAAAGTGCAGCTTGTGTAACAAATGTGAAG 1897
Qy 1796 CCATCAACAAAGCGGAGACGAGAGAGAGGTATCTCTCTTCATGTGATCAAGGGTCTCTG 1855
Db 1898 CGGTCAACAAAGTGGGAGAGAGAGAGGTATCTCTCTTCACAGTGCACAGGGGTCTCTG 1957
Qy 1856 AAATTAATCTGTGCAACCTGTGCCAGCACTGAGCAGAGAGAGTGTCCCTGTGTGCA 1915
Db 1958 AAATTAATCTGTGCAACCTGTGACATGCAAGCCACTGAGCAGAGAGAGGTGTGTGTGCA 2017
Qy 1916 CTGCAACAGAAATACGTTTGAAGAACTCAAGTGTCAAGCTTGGCTCAACAGCAACAT 1975
Db 2018 CTGCAACAGATCTACGTTTGAAGAACTCAACATGTATCAAGCTTGGCCCAAGCTCTGCG 2077
Qy 1976 CGGTCAACATGGGCAATCACTACACCAAGTTTGAAGAACTTGTGATGCTTTTGAAG 2035
Db 2078 CAATCTATGTGGAGATGTCACCACTGTTTCAAGAACTTGTGATCTTTTGAAG 2137
Qy 2036 TGAATGCAACATGTTTCTTAACGACCAAAATGACATTTGATGTGCAATTCAGAAATG 2095
Db 2138 TGAATGCAACATGTTTCTTAATGCAAAATGACATTTGATGTGCAATTCAGAAATG 2197
Qy 2096 CCTCTGCAAGAACCAAGGCACTATGTTGCTGTCTCAAGATTAAGAAACCAAGAA 2155
Db 2198 CATCTTGCAGAGAACCAAGGAGATCTATGTCTGTCTTCAAGAACCAAGAAACCAAGAA 2257
Qy 2156 GACATTTGCTGTCAAAAGCTCATCTCTAGAGCGCATGCAACCAATGATCAACCGGA 2215
Db 2258 GACATTTGCTGTCAAGGCTCATCTCTAGAGCGCATGCAACCAATGATCAACCGGA 2317
Qy 2216 ATCTGGAATCAAGACCAACCAATGCGGAGACATTTGAAGTACATTTGCCACATCTG 2275
Db 2318 ACTGGAAGATCAAGACCAAGATTTGGGAAACATCGAAGTCTCATGACCGGATCTG 2377
Qy 2276 GAAATCTTACCCCAACATTAATGTTCAAGAACCAAGACCCGTGTAGAAATTCAG 2335
Db 2378 GAAATCTTACCCCAACATTAATGTTCAAGAACCAAGACCCGTGTAGAAATTCAG 2437
Qy 2336 GCATTTGATGAGATGAGAACCGGAACCTGACTATCCGAGGTTGAGAGAGAGATG 2395
Db 2438 GCATTTGATGAGAGAGAGAACCGGAACCTGACTATCCGAGGTTGAGAGAGAGAG 2497
Qy 2396 GAGGCTCTCACTGTGCGAGGCTGCAATGCTTGTGCTGCAAGAGCGGAGACGCTCT 2455
Db 2498 AAGGCTCTCACTGTGCGAGGCTGCAATGCTTGTGCTGCAAGAGCGGAGACGCTCT 2557
Qy 2456 TCATTAATGAAGGTGCCAGAAAGAACCAACTTGAAGTCAATTCCTGTCCGCACTG 2515
Db 2558 TCATTAATGAAGGTGCCAGAAAGAACCAACTTGAAGTCAATTCCTGTAGGACCG 2617
Qy 2516 CAGTATGTCATGTTCTTCTGTCTTCTGTCTTGTCTATGTCTTACGACCGTTAAGCGGG 2575
Db 2618 CGGTGATGTCATGTTCTTCTGTCTTCTGTCTTGTCTATCTTACGACCGTTAAGCGGG 2677
Qy 2576 CCAATGAAGGGGAACTGAAGACAGGCTACCTTGTATTTGTCATGATTCAGATGAATTC 2635
Db 2678 CCAATGAAGGGGAACTGAAGACAGGCTACCTTGTATTCATGATTCAGATGAATTC 2737

QY 2636 CCTTGGATGAGCGCTGTGAACGCTTGCTTATGATGCGACGAAAGTGGAAATCCCGAGG 2695
 DB 2738 CATGGATGAACATTGTGAACGACCTGCTTATGATGCGACGAAATGGAAATCCCGAGG 2797
 QY 2696 ACCGCGTGAACCTGAGAAACCTCTTGGCCGCGTCTTGGCCAAAGTATGAGCGAG 2755
 DB 2798 ACCGCGTGAACCTGAGAAACCTCTTGGCCGCGTCTTGGCCAAAGTATGAGCGAG 2857
 QY 2756 AGGCTTTGGAATTGACAGAGCGACTTGGCAAAACAGTACCGCTCAGATTTGAAAG 2815
 DB 2858 ATGCTTTGGAATTGACAGAGCGACTTGGCAAAACAGTACCGCTCAGATTTGAAAG 2917
 QY 2816 AAGGAGCAACACAGAGCGAGCATCGAGCCCTCATGCTGAACTCAAGATCTCTACACA 2875
 DB 2918 AAGGAGCAACACAGAGCGAGCATCGAGCTCTCATGCTGAACTCAAGATCTCTACACA 2977
 QY 2876 TTGCTCACAATCTCAATGTGTGAACCTCTTAGCGCGCTTGACCAAGCCGGAGGCGCTC 2935
 DB 2978 TTGCTCACAATCTCAATGTGTGAACCTCTTAGCGCGCTTGACCAAGCCGGAGGCGCA 3037
 QY 2936 TCATGCTGATGTGGAATCTGCAAGTTTGGAAACCTATCACTTACGGGGCAAGA 2995
 DB 3038 TCATGCTGATGTGGAATCTGCAAGTTTGGAAACCTATCACTTACGGGGCAAGA 3097
 QY 2996 GAAATGAATTTGTTCCCTATTAAGAGCAAGGGGCGACTTCCGCGAGGGCAAGACTAG 3055
 DB 3098 GAAATGAATTTGTTCCCTATTAAGAGCAAGGGGCGACTTCCGCGAGGGCAAGACTAG 3157
 QY 3056 TTGGGAGAGCTCTCCGTGATCTGAAAGACGCTTGACAGCATCACAGAGCGCAGAGCT 3115
 DB 3158 TTGGGAGAGCTCTCCGTGATCTGAAAGACGCTTGACAGCATCACAGAGCGCAGAGCT 3217
 QY 3116 CTGCAAGCTCAGGCTTTGTTGAGAGAAATCGTCTGATGTGAGAGAGAAAGCTT 3175
 DB 3218 CAGCGAGCTCTGATTTGTGAGAGAAATCGTCTGATGTGAGAGAGAAAGCTT 3277
 QY 3176 CTGAAAGCTGTACAGAGACTTCTGACCTTGGAGAGCTCATCTGTTCAGCTTCAAG 3235
 DB 3278 CTGAAAGCTGTGTAAAGAGACTTCTGACCTTGGAGAGCTCATCTGTTCAGCTTCAAG 3337
 QY 3236 TTGGCTAAGGGCATGAGAGTTCTTGGCATCAAGAGTATCCACAGAGGACTTGGCAGAC 3295
 DB 3338 TTGGCTAAGGGCATGAGAGTTCTTGGCATCGGAAAGTATCCACAGAGGACTTGGCAGAC 3397
 QY 3286 GAAACATTTCTCTATCCGAGAGAAATGTGTAAATCTGTGACTTCCGCTTGGCCCGG 3355
 DB 3388 GAAATATCTCTTATCCGAGAGAAATGTGTAAATCTGTGACTTCCGCTTGGCCCGG 3457
 QY 3356 ACATTTATTAAGACCGGATTAATGTCAAGAAAGAGATGCGCGACTCCCTTGAAGTGA 3415
 DB 3458 ATATTTATTAAGATCCAGATTAATGTCAAGAAAGAGATGCTGCGCTCCCTTGAAGTGA 3517
 QY 3416 TTGGCCCGGAAACATTTTGAACAAGTATACAAATTCAGAGCGATGTGTCTTTGCG 3475
 DB 3518 TTGGCCCGGAAACATTTTGAACAAGTATACAAATTCAGAGCGATGTGTCTTTGCG 3577
 QY 3476 GTGTGTGTCTTGGGAAATTTTCTTAAAGTGTGCTCCCATACCTTGGGGCTCAAGATTG 3535
 DB 3578 GTGTGTGTCTTGGGAAATTTTCTTAAAGTGTGCTCCCATACCTTGGGGCTCAAGATTG 3637
 QY 3536 ATGAAGATTTTGTGAGAGATGGAAGAAAGAACTAGAAATGCGGGGCTCTGACTACAT 3595
 DB 3638 ATGAAGATTTTGTGAGAGATGGAAGAAAGAACTAGAAATGCGGGGCTCTGACTACAT 3697
 QY 3596 CCCCGAAGATGACAGAGCATGCTGAGCTGTGAGAGAGAGCCCAACAGAGAGCTT 3655
 DB 3698 CACCGAAGATGACAGAGCATGCTGAGCTGTGAGAGAGAGCCCAACAGAGAGCTT 3757
 QY 3656 CGTTTCAAGATTTGTGAGAGATTTTGGAGAACTCTCTGCAAGAAATGCGCAGAGATG 3715
 DB 3758 CGTTTCAAGATTTGTGAGAGATTTTGGAGAACTCTCTGCAAGATTTGCTCAGAGAGATG 3817

QY 3716 GCMAAGATATATTTGTTCTTCCAAATGTCAGAGACATGAGCATGGAAGAGATTTCTGAC 3775
 DB 3818 GCMAAGATATATTTGTTCTTCCAAATGTCAGAGATGTCAGCATGGAAGAGATTTCTGAC 3877
 QY 3776 TCTCCCTGCTTACCTGATGTTTCTGTATGAGAGAGAGAGAGTGTGCAATCCCAAT 3835
 DB 3878 TCTCCCTGCTTACCTGATGTTTCTGTATGAGAGAGAGAGAGTGTGCAATCCCAAT 3937
 QY 3836 TCCATTAAGACAAACAGAGAGATGATCATTTATCCAGAAACATTAAGCAAGAGCC 3895
 DB 3938 TCCATTAAGACAAACAGAGAGATGATCATTTATCCAGAAACATTAAGCAAGAGCC 3997
 QY 3896 GGCAGTGAAGTAAATAATTTGAAGATATCCCATTTGAGAGAAACAGAGTAAAGTGA 3955
 DB 3998 GGCAGTGAAGTAAATAATTTGAAGATATCCCGTTAGAGAAACAGAGTAAAGTGA 4057
 QY 3956 TCCAGATGACAAACAGAGAGATGATGATGATGATGATGATGATGATGATGATGATG 4015
 DB 4058 TCCAGATGACAAACAGAGAGATGATGATGATGATGATGATGATGATGATGATGATG 4117
 QY 4016 TGAAGACAGAGAAACAAATTTATCTCCATCTTTTGTGAGATGATGATGATGATGATG 4075
 DB 4118 TGAAGACAGAGAAACAAATTTATCTCCATCTTTTGTGAGATGATGATGATGATGATG 4177
 QY 4076 AGTCTGTGCTCTGGAAGGCTCCAAACAGAGAGTGTGATGATGATGATGATGATGATG 4135
 DB 4178 AGTCTGTGCTCTGGAAGGCTCCAAACAGAGAGTGTGATGATGATGATGATGATGATG 4237
 QY 4136 ATGACACAGACAAACCGGTGATCTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 4195
 DB 4238 ATGACACAGACAAACCGGTGATCTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 4297
 QY 4196 CTGAG-----TTCAAGCTGATCTGAGGACCACTGCG 4228
 DB 4298 TTGAGGTGCAACCGGTGATCTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 4357
 QY 4229 GCTCAAGCTCTGTTAAATGAGAGTGTCTGCTCCGCGCTCCGCGCTCCGCGCTCCGCG 4288
 DB 4358 GCTCAAGCTCTGTTAAATGAGAGTGTCTGCTCCGCGCTCCGCGCTCCGCGCTCCGCG 4405
 QY 4289 TCAGAGAGAGTGTGCTGCTTGAATTTCAAGTGTGTCTTCAACCAACCGGAGATGAC 4348
 DB 4406 TCAGAGAGAGTGTGCTGCTTGAATTTCAAGTGTGTCTTCAACCAACCGGAGATGAC 4464
 QY 4349 CACATTTGATTTTCAATTT-----TTGAGAGAGAGAGAGAGAGAGAGAGAGAG 4403
 DB 4465 CACATTTGATTTTCAATTT-----TTGAGAGAGAGAGAGAGAGAGAGAGAGAG 4524
 QY 4404 CAGGAGATTTCCAGAGAGAGATGCCCATGACCAAGAT-----GNG 4444
 DB 4525 CAGGAGATTTCCAGAGAGAGATGCCCATGACCAAGAT-----GNG 4583
 QY 4445 TTGACTTACTCTCTTTTCCATTTCAATTTAAAGTCTTATATATGAGTGTGCTGTGCT 4504
 DB 4584 TTGACTTACTCTCTTTTCCATTTCAATTTAAAGTCTTATATATGAGTGTGCTGTGCT 4643
 QY 4505 TCACACAGAGTAAACCAAGAGATTTCAACAGTGTGCTGTGCTTCAAGAGAGTGTG 4564
 DB 4644 TCACACAGAGTAAACCAAGAGATTTCAACAGTGTGCTGTGCTTCAAGAGAGTGTG 4701
 QY 4565 A-----ACGGGACCTGTGAAACCTGATGAGATGAGAGAGAGAGAGAGAGAGAG 4612
 DB 4702 AGTACCTGGAGAGCTGACATCTTCTTAAACCTGAGATTAACCAAGAGAGAGAGAGAG 4761
 QY 4613 GAGAGTGGATGATGTCCAG-----GACCGAGTGTCTTCACTTGAAGAGCTTTGTGAG 4668
 DB 4762 GAGAGTGGATGATGTCCAG-----GACCGAGTGTCTTCACTTGAAGAGCTTTGTGAG 4821
 QY 4669 GATGCGGCT-ATGAGCCAGAGTGTGAGTGTGAGATGATGATGATGATGATGATGATG 4727
 DB 4822 GATGCGGCT-ATGAGCCAGAGTGTGAGTGTGAGATGATGATGATGATGATGATGATG 4881
 QY 4728 AG-----TCGCTCGAGAGAGAGTGTGAGATGATGATGATGATGATGATGATGATG 4782

Db	4882	CGTTAACCTTGGCTTTGGAGAGTAAGTGAAGCTTCGCAATGCAATTTGTGTTCCTCTGGTGGAG	49411
Oy	4783	GTGGGCTTTGTGGCCCTGTGACAGAAACGCAAGGCGGCGCGACAGGTTTGTTGGAGAGT	48422
Db	4942	GTGGGCAATGGGGTCTGTCTGTGAAATGTAAAGGTTCAACAGGGGGTTTCGGTTTTAGAAAG	50010
Oy	4843	TTGGCTGTCTTTCACAGTCGGGTTACAGCCAGTTCCCTGTGGGCTTTCCTACTCTAAT	49020
Db	5002	GTGGCGTGTCTTTCGAGTTGGGCTTAAAGTAAGATTCGTTGTGCTGTTCGACTTCATAT	50610
Oy	4903	GAGAGTTCCTTCCGGACTTTACGTGTCTCTCGGCGCTGGCCCGCAGAAAGAAATGATCA	49623
Db	5062	GAGAGTTCCTTCCACACCGTTAGCTGTCTCTGTGCAAGCCCGAGAAAGAAATGATCA	51211
Oy	4963	GCTTGCTCTTCTCATCTCTCAGGCTGTGCTTAATTGAAACACCAAAAGAGAGAAC	50222
Db	5122	GCT--CTGGCTCTTGTCTCCAGGCTGATCCTTTATTCAGAAATCCACAAAGAAAGGAC	51797
Oy	5023	GT--CGGAGAGGCGTCTGACGGGGCGAAGAAATGTGAGAACAGAACAGAAACTCAGG	50800
Db	5180	ATTACGCTCAAGGCTTCCTCGCGCTTTGAAGATTTCTGACTGCAACAAACAGCTTTGGT	52393
Oy	5081	TTTCTGCTGGGTGAGACCACTGGGC-----GCCCTGTGGCAGGTCT	51242
Db	5240	TTCTTCTGGAATGAATATACCTCTATCTGTCTGTATGTATATGCTGAGACTGAATCG	52992
Oy	5125	GAGGTTTCTGTGCA-----GTGGGGTAAAGGCTCAGGCTGTGTCTTCTCTAT	51777
Db	5300	GGAAGTTCAATGTGAAGCTGTGTGGGTGTCAAAGTTTCAGAGAAAGATTTAACTTTTGG	53559
Oy	5178	CTCCACTGC-----TGTCAAGGCCCCCAAGTCTCAGTATTTTAGCTTTGTG	52223
Db	5360	TTCTTCCCCCTGTCCCCCAACCACTCTACCCCCGAGAACCACTATTTTAGTTATTTG	54199
Oy	5224	GCTTCTGATGAGCAAAAAATTTAATGTGTGTGTTGTCTCTCCAGATTAATCACTAGCCA	52833
Db	5420	G---CCTCTACTCCAGTAAACCTGATGTGGTTGTTCACCTCTGAAATGATTAATAGCCA	54767
Oy	5284	GATTTGCAATTAATCTTTTAGCCGAGTTATGATTAACATCACTAGTATCCTTAGAATTT	53433
Db	5477	GACTTCAAAATTAATTTAATTAAGCCCA--AATTAATAACATCAATGTATTAATTTAGACTTT	55333
Oy	5344	TAACTATAAACAATATGTACTAGTTTCTGCGCTGTGCT	5384
Db	5534	TAACTATAAGACTATTTCTACTAGATTTTGTGCCCTTGTCT	5574
RESULT 14			
US-10-294-228-7			
: Sequence 7, Application US/10294228			
: Publication No. US20040018176A1			
GENERAL INFORMATION:			
: APPLICANT: Tolentino, Michael J.			
: APPLICANT: Reich, Samuel Joeham			
: TITLE OF INVENTION: Compositions and Methods for siRNA			
: FILE REFERENCE: 43826-1			
: CURRENT APPLICATION NUMBER: US/10/294,228			
: CURRENT FILING DATE: 2002-11-14			
: PRIOR APPLICATION NUMBER: US 60/398,417			
: NUMBER OF SEQ ID NOS: 80			
: SOFTWARE: FastSeq for Windows Version 4.0			
: SEQ ID NO 7			
: LENGTH: 5830			
: TYPE: DNA			
: ORGANISM: Homo sapiens			
: US-10-294-228-7			

Query Match	61.6%;	Score 3317.8;	DB 7;	Length 5830;
Best Local Similarity	78.4%;	Pred. No. 0;		
Matches 4314;	Conservative	0;	Mismatches 1027;	Indels 160;
				Gaps 22;

OY	14	TCGGATTAACCTGGGTGACCCGATATTCGCGGACACCGCTGACAGCCG-CGGCTGAGAGCCAG	72
Db	104	CTGATATATCTCTCTTAACGGCACCCGACAGCGCCCTTGACAGCGCCGCTGGCGCCCGG	163
OY	73	GGCGCGGTGCCCCCGGCTCTCCCGGATCTTGCCGTGCGGGGGGCA-----TACCGCCTCT	127
Db	128	GTAACCTTCTTTGCGGGCCAGGACGAGAGAGAGTCTGTGCTGAGAAACTGGGCTCTGT	187
OY	224	GGCGCTCTCTTCTCAAGACGGCGGTGGGAGAAACCGCGCTCCCGAATTCGGGCAATTT	283
OY	188	GCCGAGGCGGAGGTCAGATGAGACAGAGGCGCTCTAGCTGTGCTCTGTGGTCT	247
Db	284	CGCCCGGCTCGAGGTGACAGATGACAGAGCAAGTGTCTGTGGCGCTGTGGCTCT	343
OY	248	GCGTGAGAGACCGAGCGCGCTCTGTGGGTTTGAACCTGGGATTTTCTCATCCCCCAAGC	307
Db	344	GCGTGAGAGACCGGGCGCGCTCTGTGGGTTTGCCTAGTGTTCTCTTGATCTGCCAAGC	403
OY	308	TCAGACACACAAAAGACATACTGACAAATTTGGCAAAATACAAACCTTGAGATTAATCTGCA	367
Db	404	TCAGATACAAAAAGACATACTTAACAATTAAGCTAATACAACTTTCAAAATTAATCTTGA	463
OY	368	GGGACAGCGGGACCTGACTGTGCTGGGCCCAATGCTCAGCTGATTTCTGAGAAAGG	427
Db	464	GGGACAGAGGGAATTTGGACTGTGCTGGGCCCAATTAATCAGAGTGGCAGTGAGCAAAAGG	523
OY	428	TATTGTGATCTGAATGCGCGCGGTGGTACAGTATCTTCTGCAAAAACATCAACATTTCCA	487
Db	524	TGAGAGTACAGATGACAGCGATG-----GCCTCTTCTGTAAGACATCAACAATTTCAA	577
OY	488	GGGTGTGTGAAATGATACTGAGACCTTACAAGTCTCGTACCGGGACGTGCACATAGCCT	547
Db	578	AAGTATGCGAAATGACACTGGAACCTTACAAAGTCTTCTACCGGAAACTGACTTGGCT	637
OY	548	CCACTGTTATGTCTATGTTGAGATTAACAGATCAACATTATGCGCTCTGTCACTGAC	607
Db	638	CGGTCAATTAATGTCTATGTTCAAGTATTAACAGATCTCCATTAATGCTCTGTATGATGAC	697
OY	608	AGCATGGATGATGATCACTCAACGAGAACAAAGAACTGTGGTATCCCTGCGGAG	667
Db	698	AACATGGAGTGTGATCACTTACAGAACAAAGAACTGTGGTATCCATGCTTCG	757
OY	668	GGTGGATTTCAAACTCAATGTGTCTCTTGGCGTAGGATTCAGAAAAGAGATTTGTC	727
Db	758	GGTCAATTTCAAACTCAAGTGTCACTTGTGCAAGTATCCAGAAAAGAGATTTGTC	817
OY	728	CGGATGGAACAGAAATTTCTTGGGACAGCGAGATAGGCTTTAATCTCTCCCAATTACATGA	787
Db	818	CTGATGGAACAGAAATTTCTTGGGACAGCAAGAGGCTTTAATCTTCCAGCTACATGA	877
OY	788	TCACCTATGCGGAGATGGTCTTCTGTGAGCAAAAGATCAATGATGAACCTATCAGTCTA	847
Db	878	TCACCTATGCGGAGATGGTCTTCTGTGAGCAAAATTTAATGATGAAGTATCCAGTCTA	937
OY	848	TCATGTACATATGTTGTGGTTGTAGAGATATAGGATTTATGATGTGATTTGAGCCCCCGC	907
Db	938	TTATGTACATATGTTGTGGTTGTAGAGATATAGGATTTATGATGTGATTTGAGTCCGTCTC	997
OY	908	ATGAAATTTGACCTATCTGCGGAGAAACCTGTCTTAATTTGTAACGGGAGAACAGAGC	967
Db	998	ATGAAATTTGAACTATCTGTGGAAGAAAGCTTGTCTTAATTTGTAACAGAAAGCTGAAC	1057
OY	968	TCATATGTGGGCTGATTTCACTCTGGCACTCTCAACCTTCAAAGTCTCATATTAAGAA	1027
Db	1058	TAAATGTGGGATTTGACTTCAACTGGGAATACCTCTTTCAGAGATCAGATTAAGAAAC	1117
OY	1028	TTGTAAACCGGAGATGTGAACCTTTTCTGTGGACTGTGGCGAGATGTTTTTGGAGACTT	1087
Db	1118	TTGTAAACCGGAGACTTAAGAACCAAGTCTGGGAGATGAAATGAAGAAATTTTGGAGACTT	1177

QY 1088 TGACAAATAGAAAAGTGTGACCAAGAGTGACCAAGGGAAATACACTGTGTAGCGTCCAGTG 1147
 Db 1178 TAACTATAGATGGTGTAAACCCGAGGTGACCAAGAGTTGTATACCTGTGACGATCCAGTG 1237
 QY 1148 GACGGATGATCAAGAGAAATAGAACTTTGTCCGAATTACACAAAGCCTTTTATTGTCTT 1207
 Db 1238 GGCTGTATGACAAAGAAAGAACAGCACTTTGTCCAGGGTCCATGAAAAACCTTTTGTGTCTT 1297
 QY 1208 TCGGTAGTGGAGTGAATCTTTGTGGAAAGCCAGTGGGCAGTCAAGTCCGAATCCCTTG 1267
 Db 1298 TTGGAAAGTGGCATGAAATCTGTGTGAAAGCCAGGTGGGGAGCGGTGCAGAAATCCCTG 1357
 QY 1268 TGAAGTATCTCAGTTAACCCAGCTCTGATATCAATGATGTAACAGAAATGGAAGGCCCATG 1327
 Db 1358 CCAAGATACCTTGTTTACCCAGCCCAAGAAATATAATGGTATATAAATGGAATACCCCTTG 1417
 QY 1328 AGTCCAACTACACATGATTTGTGGCGATGAACTCACATCATGGAAGTGACTGAAAGAG 1387
 Db 1418 AGTCCAACTACACATTAAGCGGGGCACTGATCGATTAATGGAAGTGAAGAG 1477
 QY 1388 ATGCAGAAACTACACGCTCATCTGACCAACCCCATTTCAATGGAGAAACAGAGCACA 1447
 Db 1478 AACAGAAATTAACACTGTCACTTCTTAACCAATCCATTTCAAGAGAAAGCAGAGCCATG 1537
 QY 1448 TGGTCTCTCTGTTGTGAATGTCCACCCAGATCGGTGAGAAAGCCTTGATCTCGCTTA 1507
 Db 1538 TGGTCTCTCTGTTGTGTATGTGCCACCCAGATTGGTGAATACTTAATCTCTCTG 1597
 QY 1508 TGGATTTCTTACCAATGTGGGACCATGACACATTTGACATGACAGTCTACGCCAACCTTC 1567
 Db 1598 TGGATTTCTTACCAATGTGGGACCATGACAGCTCAATGCGGTCTATGTCATCTCTTC 1657
 QY 1568 CCCTGACCACTCCAGTGTGTACTGGCAGCTAGAAAGACGCTCTCTACAGACCCGGGC 1627
 Db 1658 CCCCGCATACATCACTGTATTTGGCAATTGGAGAGAGATGCGCAACGAGCCAGGC 1717
 QY 1628 AA-----ACAAAGCCGATAGCTTGTAAAGATGAGACACATGAGAGATTTCC 1675
 Db 1718 AAGCTGTCTCAGTGAACAAACCCATACCTTGTGAAGAAATGGAAGTGTGGAGACTTCC 1777
 QY 1676 AGGGGGGAAACAGATCGAAGTCAACAAACCCATATATGCTGATTGAAAGAAAAACA 1735
 Db 1778 AGGGGAAATTAATTTGAATTAATTAATAATCAATTTGCTTAATTGGAAGAAAAACA 1837
 QY 1736 AAACGTGAATGAGCGTGTCACTCAAGCTGCCAAGCTGACGCTTGTACAAATGGAAG 1795
 Db 1838 AAACGTGAATGAGCGTGTATTCCAAGCGGCAAAATGTGACGCTTGTGAACAAATGGAAG 1897
 QY 1796 CCATCAACAAAGCGGGACGAGAGAGAGGGTCACTCTTCATGATGATCAGGGGTCTG 1855
 Db 1898 CGGTCAACAAATCGGGAGAGAGAGGGTGTATCTCTTCACTGACCAAGGGGTCTG 1957
 QY 1856 AAATTAAGTGTGCACTCTGCTGCCAGCCAACTGAGCAGAGAGAGTGTCTCTGTGTGCA 1915
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 QY 1916 CTGCAAGAGAAATCGTTTGAACCTTCAAGTGTGAACAGTGTGGCTTCCACAGCAACT 1975
 Db 2018 CTGCAAGAGAAATCGTTTGAACCTTCAAGTGTGAACAGTGTGGCTTCCACAGCTTCC 2077
 QY 1976 CGGTCCACATGGGCAATCACTCACACAGTTTGGCAAGACTTGGATGCTTTTGGAAAC 2035
 Db 2078 CAATCAATGTGGAGAGTGGCCACACCTGTTTGGCAAGACTTGGATGCTTTTGGAAAT 2137
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 QY 2096 CCTCTCTGAGGACCAAGGCGATGTTGCTGTGCTGAAGATAAGAACCAAGAAA 2155
 Db 2198 CATCTCTTGAAGACCAAGGAGACTATGTGCTTGTCTGAAGACCAAGAAA 2257
 QY 2156 GACATTTGCTGTCAAAAGCTCATCTATAGAGGCAATGGCACTCATGATCACCGGA 2215

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 Db 2318 AACTGAGAAATCAGACAAAGATTTGGGAAAGCATCCAAATCTCATCAGGCACTG 2377
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 QY 2456 TCATATATGAAGTGGCCAGAAAGAACCAACTTGAAGTCAATTAATCTGTCGCACTG 2515
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 QY 2576 CCAATGAAGGGGAACTGAAGACAGGCTACTTGTATGTATGTATCCAGATGAATTC 2635
 Db 2678 CCAATGAAGGGGAACTGAAGACAGGCTACTTGTATGTATGTATCCAGATGAATTC 2737
 QY 2636 CCTTGAATGAGGCTGTGAAGCTTGCCTTATGATGCGAGCAAGTGGGAATCCCAAGG 2695
 Db 2738 CATTTGAATGAATTTGAACGATCTGCTTATGATGCGAGCAAGTGGGAATCCCAAGG 2797
 QY 2696 ACCGCTGAACCTAGAAACCTCTTGGCGCGGTGCTTCCGCAAGTGAATTTGAGCGAG 2755
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 QY 2876 TTGTCAACCATCTCAATGTGTGAACCTTCAAGCGGCTGACCAAGCGGAGGGGCTTC 2935
 Db 2978 TTGTCAACCATCTCAATGTGTGAACCTTCAAGCGGCTGACCAAGCGGAGGGGCTTC 3037
 QY 2936 TCATGTGATTTGGAATTTGTGCAAGTGTGAACCTTCAAGCGGCTGACCAAGCGGAGGG 2995
 Db 3038 TCATGTGATTTGGAATTTGTGCAAGTGTGAACCTTCAAGCGGCTGACCAAGCGGAGGG 3097
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 Db 3158 TTGGGAGCAATCCGTGTGATCTGAAGAAAGCGGCTTGAAGAGCATCAACAGTACAGAGCT 3217
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 QY 3236 TGGCTTAAGGCAATGAGTTCTTGGCATCAAGAAAGTGTATCCACAGGAGCTTGCAGCAG 3295

Db 3338 TGGCTAAGGCAATGAGTTCTTGCGATCGCGAAGGTATCCACAGAGGACTGCGCGAC 3397
Oy 3296 GAAACATTCCTCATCGAGAGAAATGTGTAGATCTGTGACTTCGCTTGCGCCGG 3355
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Db 3458 ATATTATTAAGATCCAGATTATGTCAAGAAAAGAGATGCTGCTCCCTTTGAAGTGA 3517
Oy 3436 TGGCCCGGAAACATTTTGAACAGATATACAAATTCAGAGCGATGTGTGCTTTCG 3475
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Oy 3596 CCCGAAATGTACCAAGCAATGCTGTGACTGTGCGATGAGAGACCCCAACAGAGACCT 3655
Db 3698 CACGAAATGTACCAAGCAATGCTGTGACTGTGCGAGCGGAGGCCAGTCAAGAGACCA 3757
Oy 3656 GATTTTCAAGTGTGTGAGCAATTTGGGAAACCTCTGCAAGCAAAATGCGAGCAGATG 3715
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Oy 3716 GCAAGACTATATTTGTCTTCCATGTCAAGAGCACTGAGCATGGAAGAGATTTCTGAC 3775
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Db 3998 GAGCAGTGTGTAAACATTTGAAGATTCCTTGAAGAGAACAGAGTAAAGTGA 4057
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Db 4058 TCCAGATGACAGCAGACAGACAGTGTGATGCTTTCAGACAGAAAGCTGAAATC 4117
Oy 4016 TGAAGACAGAAACAAATTAATCTCCATCTTTTGTGATGATGCTCCAGTAAAGCAGAG 4075
Db 4118 TGAAGACAGAAACAAATTAATCTCCATCTTTTGTGATGATGCTCCAGTAAAGCAGAG 4177
Oy 4076 AGTCTGTGCTCGAAGGCTTCAACAGACCAAGTGTGCTTCAAGTGTGATGCTCAAG 4135
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Oy 4136 ATGACACAGACCAACCGGTATCTCCAGACAGACAGAGCAGAGCTTTAAAGATGTGATG 4195
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Db 4298 TTGAGATGCAAAACCGGTATGACAGCCAGATTTCTCAAGCTGACTGAGGAGACCACTG 4357
Oy 4229 GCTCACTCTGTGTTAAATGAGATGCTGTGCTCCGAGCTCGGCCCACTCTGAGAA 4288
Db 4358 GCTCTCTCTGTGTTAAAGAG-----CATCAACACCCCACTCCGAGACA 4405
Oy 4289 TCACAGAGAGAGTGTGCTTGAATTTTGAAGTGTGCTTTCCACCAACCGGAAAGTAC 4348
Db 4406 TCACATGAGAGGT-CTGCTCAGATTTTGAAGTGTGCTTTCCACCAAGAGAGTAC 4464

Oy 4349 CACATTGATTTTCAATTT-----TTGAGAGAGGACCTCAGACTGCAAGAGCTTGTCT 4403
Db 4465 CGCATTTGATTTTCAATTTTCGACAAACAGAAAGAAAGACCTCGAGCTGACAGGAGCCAGTCT 4524
Oy 4404 CAGGCAATTTTCAGAGAAAGATGCCATGACCAAGAT-----GTG 4444
Db 4525 CTAGGCATATCTG-GAAGAGGCTTGTGACCAAGAAATGTGTGTGTCTTCTCCAGATG 4583
Oy 4445 TTGACTGATCTCTTTTCCATTTTAAAGCTATATATATATGTGCTGTGTGTC 4504
Db 4584 TTGACTGATCTCTTTTCCATTTTAAAGCTATATATATATGTGCTGTGTGTC 4643
Oy 4505 TCACACAGTTTAAAGCAAAAGCTTTCAACACAGTGTGACTGTCTCTCAAGAGTGC 4564
Db 4644 TCACCATGAGTTTGAACAAAGACCTTCAGCA--ATGGCCCAATCTCAAGAAAGTAC 4701
Oy 4565 A-----ACGCACTCTGTGAAACTGATGCAATGAGCAATGCTTGTGT 4612
Db 4702 AGTACTGGGAGCTGACACTTCTGTAAACTAGAGATTAACAGGCAACGTAAAGTGT 4761
Oy 4613 GAGATGAGTGAATGTGCCAG-----GGCGAGTCTGTCTACTGAGGCTTGTGTGAG 4668
Db 4762 CGAGTGTGAAGATGGAGAGATTTCAGAGGCTGAGTCTATCCAGAGGCTTGTGTGAG 4821
Oy 4669 GATGCGCT-ATGACCAAGTGTTAAGTGTGAGATGTGACTGTGAGAGAGAGAAAGCCGA 4727
Db 4822 GAGGTGGTCCCAAGCCAGCTTAAGTGTGAATTTGGATGTGAATGAAGAAAGAGACTTA 4881
Oy 4728 AG-----TCGCTCGAAGACGGTTGAGAGCTGCAAGTCAATTTGTGTGTGTGAG 4782
Db 4882 GATTACCTTGTGTTGAGAGATGACTGAGCCGCAAAATGCAATGTGTGTGCTCTGTGAG 4941
Oy 4783 GTGAGCTTGTGAGCTGTGAGAAACGAAAGGCGCGGCTTGTGTGAGAGT 4842
Db 4942 GTGAGCATGGGCTGTGTTCTGAATGTAAAGGTTCAAGACGGGTTCTGTGTTTGAAG 5001
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Oy 4903 GAGGTTCTTCCGAGCTTCTTACGTGTCTGTGCTGTGAGCCCAAGAAAGAAATGATCA 4962
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Oy 4963 GCTTGTCTCTTCTCATCTGTCAAGCTGTGCTTAAATTCAGAACACCAAAAGAGAGAC 5022
Db 5122 GCT--CTGGCTCTTGTCTTCCAGAGCTGATCTTTATTCAGAAATACCAAAAGAGAGAC 5179
Oy 5023 GT--CGGCAAGGCTCTGACGAGGCGAAGAAATGTGAGAACAGAACAGAACTCAGAG 5080
Db 5180 ATTCAAGTCAAAGGCTCTCCGTCGTTGAAAGATGTGACTGACAAACAGCTTCTGTGT 5239
Oy 5081 TTTCTGTGAGTGAAGACCACTGTGC-----GCCGTGTGAGAGGCT 5124
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Db 5477 GACTTCAAAATTTATTTATGCGCA---AATTATTAATCTTATTTATTTATTTAGACTTT 5533

QY 5344 TAACTATATACTATGCTACTGCTTCTGCTGTGTGCT 5384
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RESULT 15
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Sequence 3, Application US/10783528
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GENERAL INFORMATION:
APPLICANT: Aziz, Natsasha
APPLICANT: Gish, Kurt
APPLICANT: Wilson, Keith
APPLICANT: Zlotnik, Albert
TITLE OF INVENTION: METHODS OF DIAGNOSIS OF CANCER, COMPOSITIONS AND
FILE REFERENCE: 05882, 0191, NPLUS01
CURRENT APPLICATION NUMBER: US/10/783,528
CURRENT FILING DATE: 2004-02-19
NUMBER OF SEQ ID NOS: 116
SOFTWARE: Patentin version 3.2
SEQ ID NO 3
LENGTH: 5830
TYPE: DNA
ORGANISM: Homo Sapiens
US-10-783-528-3

Query Match 61.6%; Score 3317.8; DB 8; Length 5830;
Best Local Similarity 78.4%; Pred. No. 0;
Matches 4334; Conservative 0; Mismatches 1027; Indels 160; Gaps 22;

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DB 164 GCTCCCTACCCCTGCGCTCACTGCTCTGCGCTGCGGCGCGCGAGTTCCACTCC 223
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QY 608 AGCATGGCATGCTGTATCATCACCGAGACAAAGAACAAACCTGGTGTATCCCTGCGAG 667
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QY 1916 CTGACAGACAAATACGTTTGAAGACTTCACGTGTACAGAGTGTGCTTCACAGCAACAT 1975
Db 2018 CTGACAGACAAATCTACGTTTGAAGACTTCACAGTGTACAGAGTGTGCTTCACAGCTTCG 2077
QY 1976 CGGTCCACATGGGCGCAATCAGTACACAGATTTGCAAACTTGTGATGTCTTTGGAAC 2035
Db 2078 CAATTCATGTGGAGAGTGGCCACACCTGTTGCAAACTTGTGATGTCTTTGGAAT 2137
QY 2036 TGAATGGCACCAGTGTCTTCTAACAGACAAATGACATCTTGTGTGCAATTCAGAAATG 2095
Db 2138 TGAATGCCACCATGTCTCTAATAGACAAATGACATTTGTATCATGAGCTTAAGATG 2197
QY 2096 CCTCTCTGACAGACCAAGCGCACTATGTGTTGCTGTCTCAAGATTAAGAAACCAAGAAA 2155
Db 2198 CATCTCTGACAGACCAAGAGACATATGTCTGCTGTCTCAAGACAGAAAGCAAGAAA 2257
QY 2156 GACATTTGCTGTGTAACAGGCTCATCATCTAGAGCGGATGACCCCATGTATCCCGGA 2215
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QY 2216 ATCTGAGAAATCAGACAAACCAATGGCGAGACCATTTGAAGTGAATGCTTGCAGCATCTG 2275
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 Job time : 3970 secs

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OM nucleic - nucleic search, using bw model

Run on: February 5, 2006, 08:42:43 ; Search time 868 Seconds
(without alignments)
11038.084 Million cell updates/sec

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Perfect score: 5390

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 9: /cgn2_6/prodata/1/lna/Backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	5346	99.2	5470	2	US-08-443-861-1
2	5346	99.2	5470	3	US-08-193-829B-1
3	5346	99.2	5470	3	US-09-967-655-10
4	5346	99.2	5470	3	US-09-766-678-1
5	5336.8	99.0	5406	2	US-07-813-593-3
6	5336.8	99.0	5406	2	US-07-977-451-5
7	5336.8	99.0	5406	2	US-07-946-507-3
8	5336.8	99.0	5406	2	US-08-252-517-5
9	5336.8	99.0	5406	2	US-07-906-397A-5
10	5336.8	99.0	5406	2	US-08-601-891-5
11	5336.8	99.0	5406	2	US-09-021-324-5
12	5336.8	99.0	5406	3	US-09-872-136B-5
13	5336.8	99.0	5406	3	US-09-919-408A-5
14	5336.8	99.0	5406	6	PCT-US92-02750-7
15	5336.8	99.0	5406	6	PCT-US92-05401-5
16	5336.8	99.0	5406	6	PCT-US92-09893-5
17	5336.8	99.0	5406	6	PCT-US92-016-3982
18	5336.8	99.0	5406	3	US-09-949-016-3982
19	5336.8	99.0	5406	3	US-09-967-655-3
20	5336.8	99.0	5406	2	US-09-949-016-327
21	5336.8	99.0	5406	2	US-08-810-116-7
22	5336.8	99.0	5406	2	US-07-930-548A-7
23	5336.8	99.0	5406	3	US-09-098-707A-1
24	5336.8	99.0	5406	3	US-09-483-539-1
25	5336.8	99.0	5406	3	US-10-100-405A-1

25	3024.6	56.1	4071	3	US-10-022-939-1	Sequence 1, Appl
26	2412.4	44.8	2431	3	US-08-985-526-35	Sequence 15, Appl
27	1656.8	30.7	2383	2	US-08-232-538-18	Sequence 18, Appl
28	1656.8	30.7	2283	2	US-08-786-164-18	Sequence 18, Appl
29	1592.4	29.5	2292	2	US-09-142-956B-1	Sequence 1, Appl
30	1420	26.3	2264	2	US-08-232-538-16	Sequence 16, Appl
31	1420	26.3	2264	2	US-08-786-164-16	Sequence 16, Appl
32	768	14.2	4014	3	US-09-119-014D-5	Sequence 5, Appl
33	768	14.2	7680	3	US-09-953-318-3	Sequence 3, Appl
34	757	14.0	7718	3	US-09-976-594-244	Sequence 244, App
35	716.2	13.3	4111	3	US-09-375-248-1	Sequence 1, Appl
36	716.2	13.3	4195	2	US-08-340-011-1	Sequence 1, Appl
37	716.2	13.3	4195	3	US-08-901-710-1	Sequence 1, Appl
38	716.2	13.3	4195	3	US-09-169-079-1	Sequence 1, Appl
39	716.2	13.3	4416	3	US-08-795-430-1	Sequence 1, Appl
40	716.2	13.3	4416	3	US-09-355-700-1	Sequence 1, Appl
41	716.2	13.3	4416	3	US-08-601-132-36	Sequence 16, Appl
42	716.2	13.3	4416	3	US-08-671-573B-36	Sequence 36, Appl
43	716.2	13.3	4416	3	US-09-631-092B-36	Sequence 36, Appl
44	716.2	13.3	4416	3	US-09-534-376A-1	Sequence 1, Appl
45	716.2	13.3	4425	2	US-08-222-616-31	Sequence 31, Appl

ALIGNMENTS

RESULT 1
US-08-443-861-1
; Sequence 1, Application US/08443861
; Patent No. 5851999
; GENERAL INFORMATION:
; APPLICANT: Ulrich, Axel
; APPLICANT: Risau, Werner
; APPLICANT: Millaer, Birgit
; APPLICANT: Gazit, Aviv
; APPLICANT: Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; TITLE OF INVENTION: Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Penile & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/443,861
; FILING DATE: 22-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/193,829
; FILING DATE: 09-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5470 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA

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;          FEATURE:
;          NAME/KEY:  CDS
;          LOCATION:  286..4386
US-08-443-861-1

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Query Match	99.28;	Score 5346;	DB 2;	Length 5470;
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Best local similarity 99.9%; Pred. NO. 0;
Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;

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QY	1619	GACCCGGCGCAACAAAGCCGATCTTGTAAAGATGGAGACAGTGGAGGATTTTCCAGG	1678
Db	1697	GACCCGGCGCAACAAAGCCGATCTTGTAAAGATGGAGACAGTGGAGGATTTTCCAGG	1756
QY	1679	GGGGAAACAGATCGAAGTCAACAAAAACAAATATGCCCTGATTTGAAGAAAAACAAA	1738
Db	1757	GGGGAAACAGATCGAAGTCAACAAAAACAAATATGCCCTGATTTGAAGAAAAACAAA	1816
QY	1739	CTGTATGATACGCTGTGATCCAACTGCGCAACGTGTCAAGCTTGTACAAATGTGAAGCA	1798
Db	1817	CTGTATGATACGCTGTGATCCAACTGCGCAACGTGTCAAGCTTGTACAAATGTGAAGCA	1876
QY	1799	TCAACAAAGCGGGACGAGAGAGAGGGGATCTCTCTTCCATGTATCCAGGGGTCTTGAAA	1858
Db	1877	TCAACAAAGCGGGACGAGAGAGAGGGGATCTCTCTTCCATGTATCCAGGGGTCTTGAAA	1936
QY	1859	TTACTGTGCAACTGTCTGCCAGGCCAACTGACGAGAGAGTGTCTCTGTGTGTGCACTG	1918
Db	1937	TTACTGTGCAACTGTCTGCCAGGCCAACTGACGAGAGAGTGTCTCTGTGTGTGCACTG	1996
QY	1919	CAGACAGAAATACGTTTGAGAACTCACGTGTGTACAAAGCTTGGCTCACAGGCCAATCTGG	1978
Db	1997	CAGACAGAAATACGTTTGAGAACTCACGTGTGTACAAAGCTTGGCTCACAGGCCAATCTGG	2056
QY	1979	TCCACATGGGGGAATCACTCAACAAGTTTGGCAAGAACTTGGAGTCTTTTGGAAACCTGA	2038
Db	2057	TCCACATGGGGGAATCACTCAACAAGTTTGGCAAGAACTTGGAGTCTTTTGGAAACCTGA	2116
QY	2039	ATGGACCATTTTCTTCAACAGCAACAAATGACATCTTGATGTGTGGCAATTTCCAGATGCTT	2098

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Db 2117 ATGGCACAATGTTTCTTAAACAGCAAAATGACATCTTGATTTGGCATTTCAGATATGCGCT 2176
Qy 2099 CTCTGAGAGACCAAGGCGACTATGTTTGTCTCTCTCTCAAGATAAGAAAGACCAAGAAAAAGAC 2158
Db 2177 CTCTGAGAGACCAAGGCGACTATGTTTGTCTCTCTCTCAAGATAAGAAAGACCAAGAAAAAGAC 2236
Qy 2159 ATTGACCTGGTCAAAACAGCTCATCATCTAGAGGCGCATGGCAACCATGATCAACGGAAATC 2218
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Qy 2219 TGGAGAAATAGACAAACCAATTTGCGGAGACCAATTGAAGTGAATTGCCAGCATCTGGAA 2278
Db 2297 TGGAGAAATAGACAAACCAATTTGCGGAGACCAATTGAAGTGAATTGCCAGCATCTGGAA 2356
Qy 2279 ATCTTAACCCCAACATTAAGTGGTTCAAGACAAACGACCCCTGGTGAAGAAATTCAGGCA 2338
Db 2357 ATCTTAACCCCAACATTAAGTGGTTCAAGACAAACGACCCCTGGTGAAGAAATTCAGGCA 2416
Qy 2339 TTGTACTGAGAGATGGGAAACCGGAACTGACTATCCGCAAGGTGAAGAAAGAGATGAG 2398
Db 2417 TTGTACTGAGAGATGGGAAACCGGAACTGACTATCCGCAAGGTGAAGAAAGAGATGAG 2476
Qy 2399 GCCTCTACACTGCGCAGGCGCTGCAATGTCCTTGGCTGTGCAAGAGCGGAGACGCTCTTCA 2458
Db 2477 GCCTCTACACTGCGCAGGCGCTGCAATGTCCTTGGCTGTGCAAGAGCGGAGACGCTCTTCA 2536
Qy 2459 TAAATGAAGGTGCCCGAGGAAAGAACCAACTTGGAAATCATTAATCTCTGCTGCGCATGCGAG 2518
Db 2537 TAAATGAAGGTGCCCGAGGAAAGAACCAACTTGGAAATCATTAATCTCTGCTGCGCATGCGAG 2596
Qy 2519 TGAATTGCCATGTTCTTCTGCGCTCCTTCTGTCAATGTCCCAAGGACCGTTAAAGCGGAGCA 2578
Db 2597 TGAATTGCCATGTTCTTCTGCGCTCCTTCTGTCAATGTCCCAAGGACCGTTAAAGCGGAGCA 2656
Qy 2579 ATGAAAGGGAATGAAAGACAGGCTACTTGTCTAATGTCTCATGTGATCCAGATGGAATTTGCCCT 2638
Db 2657 ATGAAAGGGAATGAAAGACAGGCTACTTGTCTAATGTCTCATGTGATCCAGATGGAATTTGCCCT 2716
Qy 2639 TGGATGAGGCGTGTGAACGCTTGCCCTTATGATGCCAGGAAGTGGAAATTTCCCAAGGAGAC 2698
Db 2717 TGGATGAGGCGTGTGAACGCTTGCCCTTATGATGCCAGGAAGTGGAAATTTCCCAAGGAGAC 2776
Qy 2699 GCGTGAATCTAGGAAAACTCTTGGCGCGGTGCCCTTGGCCCAAGTGAATTGAGGCGAGAG 2758
Db 2777 GCGTGAATCTAGGAAAACTCTTGGCGCGGTGCCCTTGGCCCAAGTGAATTGAGGCGAGAG 2836
Qy 2759 CTTTGGAAATTGACAAAGACAGCGACTTGGAAAACAGTAGCCGTCAAGATGTTGAAAAAG 2818
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Qy 2819 GAGCAACACACAGCGAGCATTCGAGCCCTCATGTCTGAACTCAAGATCCCTCATTCACATTTG 2878
Db 2897 GAGCAACACACAGCGAGCATTCGAGCCCTCATGTCTGAACTCAAGATCCCTCATTCACATTTG 2956
Qy 2879 GTCAACATCTCATGTGTGAACTCTCTAGGCGCTGACCAAGCCGAGGAGGCGCTCTCA 2938
Db 2957 GTCAACATCTCATGTGTGAACTCTCTAGGCGCTGACCAAGCCGAGGAGGCGCTCTCA 3016
Qy 2939 TGGTGAATTGGAATTTCTGCAAGTTTGGAAACCTATCAACTTACCTTACCGGCGCAAGAGA 2998
Db 3017 TGGTGAATTGGAATTTCTGCAAGTTTGGAAACCTATCAACTTACCTTACCGGCGCAAGAGA 3076
Qy 2999 ATGAATTTGTTCCCTATAGAGCAAAAGGCGGACGCTTCGCGCAAGGCGCAAGGACTACGTTTG 3058
Db 3077 ATGAATTTGTTCCCTATAGAGCAAAAGGCGGACGCTTCGCGCAAGGCGCAAGGACTACGTTTG 3136
Qy 3059 GGGAGCTCTCCGTGTGATCTGAAAGAGCGCTTGGACAGCATCAACAGACCCAGAGCTCTG 3118
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Db 3197 CCAAGCTCAGGCTTTTGTGAGAGAAATCGCTCAGTATGTAGAGGAAGAAAGCTTCTG 3256
Qy 3179 AAGAACTGTAAAGAGCTTTCCTGACCTTGGAGATTCATCTGTTACACTTCCAGTGG 3238
Db 3257 AAGAACTGTAAAGAGCTTTCCTGACCTTGGAGATTCATCTGTTACACTTCCAGTGG 3316
Qy 3239 CTTAAGGCGATGAGATCTTGGCATCAAGGAAGTATTCACAGGAGACTGGCAGCAGAA 3298
Db 3317 CTTAAGGCGATGAGATCTTGGCATCAAGGAAGTATTCACAGGAGACTGGCAGCAGAA 3376
Qy 3299 ACAATTCCTTATCGAGAAAGAAATGTGTTAAGATCTGTGACTTCCGCTTGGCCCGGAGCA 3358
Db 3377 ACAATTCCTTATCGAGAAAGAAATGTGTTAAGATCTGTGACTTCCGCTTGGCCCGGAGCA 3436
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Db 3437 TTTTATPAAACCCGGAATTATGTCAAGAAAGAGATGCCGACTCCCTTTGAAAGTGAATGG 3496
Qy 3419 CCCCAGAAACCAATTTTGAACAAGTATACAAATTCAGAGCATGTGTGCTTTTCGCTG 3478
Db 3497 CCCCAGAAACCAATTTTGAACAAGTATACAAATTCAGAGCATGTGTGCTTTTCGCTG 3556
Qy 3479 TGTGCTCTGGAAATATTTTCTTAAGTGCCTCCCATATCCCTGGGATCAAGATTTGATG 3538
Db 3557 TGTGCTCTGGAAATATTTTCTTAAGTGCCTCCCATATCCCTGGGATCAAGATTTGATG 3616
Qy 3539 AAGAAATTTGTAGAGATTTGAAAGAAAGAACTAAGAAATGGGGCTCCTGACTACATACCC 3598
Db 3617 AAGAAATTTGTAGAGATTTGAAAGAAAGAACTAAGAAATGGGGCTCCTGACTACATACCC 3676
Qy 3599 CAGAAATGTAACAGACCATGCTGAGACTGTGCGATGAGGACCCCAACAGAGACCTCGT 3658
Db 3677 CAGAAATGTAACAGACCATGCTGAGACTGTGCGATGAGGACCCCAACAGAGACCTCGT 3736
Qy 3659 TTTCAAGTGTGTGAGCAATTTGGAAACCTCTCGCAAGCAATGTGCGAGCATGAGCA 3718
Db 3737 TTTCAAGTGTGTGAGCAATTTGGAAACCTCTCGCAAGCAATGTGCGAGCATGAGCA 3796
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Db 3857 CCTGCTTAACCTCACTGTTGTTCTGTATGAGAAAGAGAAATGTGCGACCCCAATTC 3916
Qy 3839 ATTATGACAAACAGCAGGAAATCACTATTAATCTCCAGAACTGAAGCGAAAGCGCGC 3898
Db 3917 ATTATGACAAACAGCAGGAAATCACTATTAATCTCCAGAACTGAAGCGAAAGCGCGC 3976
Qy 3899 CAGTGAAGTGTAAAAATTTTGAAGATATCCCATTTGGAAGAACCAAGATTAAGTGAATCC 3958
Db 3977 CAGTGAAGTGTAAAAATTTTGAAGATATCCCATTTGGAAGAACCAAGATTAAGTGAATCC 4036
Qy 3959 CAGATGACAGCAGACAGCACTGTGGAATGTTCTTGCATCAAGAAAGCTGAAAACTCTGG 4018
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Db 4157 CTGTGGCCCTCGGAAGGCTCCAAACAGACCAAGTGGCTAACAGTCTGGGTATCACTCAGATG 4216
Qy 4139 ACACAGACACACCGTGTACTCCAGCGACAGGCGAGCACTTTTAAAGATGTGTGATGCTG 4198
Db 4217 ACACAGACACACCGTGTACTCCAGCGACAGGCGAGCACTTTTAAAGATGTGTGATGCTG 4276
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Db 4277 CAGTTCAAGCTGATCTCAAGGAGACCACTGCGAGCTCACTCTGTTTAAATGGAAGTGTGCT 4336
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DB 4337 CTGTCCGGCTCGGCCCCCACTCTGTGAATACAGAGAGAGTGTCTGTAGATTTTCA 4396
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QY 4318 AGTGTGTCTTCTTCCACCAACCCGGGAAGTACCACTTTGATTTTCAATTTTGGAGAGG 4377
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DB 4397 AGTGTGTCTTCTTCCACCAACCCGGGAAGTACCACTTTGATTTTCAATTTTGGAGAGG 4456
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QY 4378 ACCCTGAGCTGCAAGAGAGTGTCTCTCAGGGGATTTCCAGAGAATGCCCCATGACCA 4437
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DB 4517 GAAATGTGTGACTCTCTCTTTTCCATTCAATTTAAAGTCTTAATATGTGCTTCG 4576
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QY 4558 AAGTGGCAACGGCACTCTGTGAACCTGGATCGAATGGCAATGCTTTGTGTGAGGA 4617
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DB 4637 AAGTGGCAACGGCACTCTGTGAACCTGGATCGAATGGCAATGCTTTGTGTGAGGA 4696
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QY 4618 TGGGTGAGATGTCCAGGGCCGAGTCTGTCTACCTTGAAGCTTTGTGAGAGATGC -GGC 4676
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DB 4697 TGGGTGAGATGTCCAGGGCCGAGTCTGTCTACCTTGAAGCTTTGTGAGAGATGC -GGC 4756
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QY 4677 TATGAGCCAAAGTTAAAGTGTGGAGATGTGAGATGAGAGAGAGAGGCGCAAGTGTCTG 4736
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DB 4757 TATGAGCCAAAGTTAAAGTGTGGAGATGTGAGATGAGAGAGAGAGGCGCAAGTGTCTG 4816
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QY 4737 GAGAGCGGTGTGAGAGCTGTGAGATGTGAGATGTGAGAGAGTGTGAGAGTGTGAGCC 4796
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DB 4817 GAGAGCGGTGTGAGAGCTGTGAGATGTGAGATGTGAGAGAGTGTGAGAGTGTGAGCC 4876
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QY 4797 TGTCAAGAAACGCAAAAGCGGCGCGAGGTTTGTGTTTGAAGTTTGCCTCTTCA 4856
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DB 4877 TGTCAAGAAACGCAAAAGCGGCGCGAGGTTTGTGTTTGAAGTTTGCCTCTTCA 4936
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QY 4857 CAGTGGGGTTACAGGGCGAGTTCCTGTGGCGTTTCTCTCTATATGAGAGTTCCTTCG 4916
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DB 4937 CAGTGGGGTTACAGGGCGAGTTCCTGTGGCGTTTCTCTCTATATGAGAGTTCCTTCG 4996
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QY 4917 GACTCTTACGTCTCTGTGAGCTGTGAGAGAGAAATGATGAGAGTGTGCTCTTCT 4976
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DB 4997 GACTCTTACGTCTCTGTGAGCTGTGAGAGAGAAATGATGAGAGTGTGCTCTTCT 5056
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QY 4977 CATCTCTAAGCTGTGCTTAAATTCAGAACACCAAAAGAGAGAACTGTGAGAGGCTC 5036
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DB 5057 CATCTCTAAGCTGTGCTTAAATTCAGAACACCAAAAGAGAGAACTGTGAGAGGCTC 5116
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QY 5037 CTGAGGGGGCCGAAATTTGAGAGACAGAACAGAACTCAGGGTTTCTGCTGGGTGAG 5096
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DB 5117 CTGAGGGGGCCGAAATTTGAGAGACAGAACAGAACTCAGGGTTTCTGCTGGGTGAG 5176
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QY 5097 ACCCACTGTGAGCGCTGTGAGAGTGTGAGAGTGTCTGTCTCAATGTGCGGTAAAGGCTC 5156
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DB 5177 ACCCACTGTGAGCGCTGTGAGAGTGTGAGAGTGTCTGTCTCAATGTGCGGTAAAGGCTC 5236
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DB 5237 AGGCTGTGTCTTCTCTATTCATCTCTGTCAAGGCCGCCCAAGTCTCAGATATTTAG 5296
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DB 5297 CTTTGTGCTTCTGATGAGAGAAATCTTAATTTGTTGTTTCTCTCCAGATATTTCA 5356
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QY 5277 CTAGCCAGATTTGAAATTAATTTTAAAGGAGTATGATTAACATCTACTGATCTTT 5336
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DB 5357 CTAGCCAGATTTGAAATTAATTTTAAAGGAGTATGATTAACATCTACTGATCTTT 5416
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QY 5337 AGAATTTTAACCTATAAACTATGTCTACTGGTTTCTGCTGTGTCTTATGTT 5390
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DB 5417 AGAATTTTAACCTATAAACTATGTCTACTGGTTTCTGCTGTGTCTTATGTT 5470
| | | | |
RESULT 2
US-08-193-829B-1
; Sequence 1, Application US/08193829B
; Patent No. 617401
; GENERAL INFORMATION:
; APPLICANT: Ulrich, Axel
; APPLICANT: Rissau, Werner
; APPLICANT: Willauer, Birgit
; APPLICANT: Gazit, Aviv
; APPLICANT: Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; TITLE OF INVENTION: Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennile & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/193,829B
; FILING DATE: 09-FEB-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741
; TELEX: 66141 PENNILE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5470 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 286..4386
; US-08-193-829B-1
Query Match 99.2%; Score 5346; DB 3; Length 5470;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;
QY 1 CTGTGTCCCGAGGC -GATTAACCTGAGTCCGACCGGATTCGCGGACACCGCTG -CAGCG 58
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DB 77 CTGTGTCCCGAGGCAGGAGTAACTGTGAGTACCGGATTCGCGGACACCGCTGACAGCG 136
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QY 59 CGGTGAGACCAAGGCGCCGGTGTCCCGGCTTCCCGGATCTTGTGCGTGTGCGGGGCCAT 118
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DB 137 CGGTGAGACCAAGGCGCCGGTGTCCCGGCTTCCCGGATCTTGTGCGTGTGCGGGGCCAT 196
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QY 119 ACCGCTCTGTGACTTTCTTTGCGGGCCAGGACGGAAGAGATCTGTGCTTGAAGAACT 178
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DB 197 ACCGCTCTGTGACTTTCTTTGCGGGCCAGGACGGAAGAGATCTGTGCTTGAAGAACT 256
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QY 179 GGGCTGTGTCCGAGGGCGAGTGTGAGATGTGAGAGACGAGGCTGTAGCTGTGCTC 238
| | | | |
DB 257 GGGCTGTGTCCGAGGGCGAGTGTGAGATGTGAGAGACGAGGCTGTAGCTGTGCTC 316
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Qy	229	TTGTGTTCTGCTGGAGACCCGAGCCGCTCTGTGGGTTTGA	CTGGCGATTTTCTCATC	298		
Db	317	TTGTGTTCTGCTGGAGACCCGAGCCGCTCTGTGGGTTTGA	CTGGCGATTTTCTCATC	376		
Qy	299	CCCCCAAGCTCAGCA	CACAGAAAAGCATCTGACAA	TTTTGGCAATA	CAACCCCTTCAGA	358
Db	377	CCCCCAAGCTCAGCA	CACAGAAAAGCATCTGACAA	TTTTGGCAATA	CAACCCCTTCAGA	436
Qy	359	TTACTTGGACGGGGACAGCGGGAC	CTGGACTGGCTTTGGCCCAATGCTCAGCGTGA	TTCTG	418	
Db	437	TTACTTGGACGGGGACAGCGGGAC	CTGGACTGGCTTTGGCCCAATGCTCAGCGTGA	TTCTG	496	
Qy	419	AGGAAAGGTTATGGTGA	CTGAATCGGCGGTGTGACAGTATCTTCTGCA	AAACCTCA	478	
Db	497	AGGAAAGGTTATGGTGA	CTGAATCGGCGGTGTGACAGTATCTTCTGCA	AAACCTCA	556	
Qy	479	CCATTCCCAAGGGTGGTGA	ATGATCTGAGCCCTACAAAGTCTCTG	ACCGGACGTG	538	
Db	557	CCATTCCCAAGGGTGGTGA	ATGATCTGAGCCCTACAAAGTCTCTG	ACCGGACGTG	616	
Qy	539	ACATAGCCTCCACTGTTATGCTATGTTCCGAGTTTACAGAT	CACCAATTCATCGCCTCTG	598		
Db	617	ACATAGCCTCCACTGTTATGCTATGTTCCGAGTTTACAGAT	CACCAATTCATCGCCTCTG	676		
Qy	599	TCAGTACACAGCATGSCATCGTGTACATCACCGAGAACAA	CAAACTGTGTGATCC	658		
Db	677	TCAGTACACAGCATGSCATCGTGTACATCACCGAGAACAA	CAAACTGTGTGATCC	736		
Qy	659	CCTGCGAAGGTCGATTTCAAACTCAATGTGTCTCTTTCG	CTAGGTATCCAGAAA	718		
Db	737	CCTGCGAAGGTCGATTTCAAACTCAATGTGTCTCTTTCG	CTAGGTATCCAGAAA	796		
Qy	719	GATTTGTTCCGGATGGAACAGAAATTTCTCGGACAGGAG	TAGCTTTACTCTCCCA	778		
Db	797	GATTTGTTCCGGATGGAACAGAAATTTCTCGGACAGGAG	TAGCTTTACTCTCCCA	856		
Qy	779	GTTACATGATCAGTATGCTCCGCGATGCTCTCTGAGG	CAAAAGATCATGATGAACCT	838		
Db	857	GTTACATGATCAGTATGCTCCGCGATGCTCTCTGAGG	CAAAAGATCATGATGAACCT	916		
Qy	839	ATCAGTCTATCATGTACATAGTTGTGTGTGATAGATAT	AGATTTATGATGTGATTCGA	898		
Db	917	ATCAGTCTATCATGTACATAGTTGTGTGTGATAGATAT	AGATTTATGATGTGATTCGA	976		
Qy	899	GCCCCCCCCATGAATTTGAGCTATCTGCCGAGAAA	AACTTGTCTTAATTTGTACAGGA	958		
Db	977	GCCCCCCCCATGAATTTGAGCTATCTGCCGAGAAA	AACTTGTCTTAATTTGTACAGGA	1036		
Qy	959	GAAAGAGCTCAATGTGGGGCTTGATTTCACTGGCACT	CTCACCTTCAAAAGTCTCATC	1018		
Db	1037	GAAAGAGCTCAATGTGGGGCTTGATTTCACTGGCACT	CTCACCTTCAAAAGTCTCATC	1096		
Qy	1019	ATAAGAGATTGTAAACCGGAGTGTAAACCTTTTCT	GTGGACGTGTGCGAAGATGTTT	1078		
Db	1097	ATAAGAGATTGTAAACCGGAGTGTAAACCTTTTCT	GTGGACGTGTGTGCGAAGATGTTT	1156		
Qy	1079	TGACACCTTTCACATATAGAAAGTGTACCAAGAG	TGACCAAGGGGAAATACCTGTGTAG	1138		
Db	1157	TGACACCTTTCACATATAGAAAGTGTACCAAGAG	TGACCAAGGGGAAATACCTGTGTAG	1216		
Qy	1139	CGTCCAGTGGACGAGTATCAAGAGAAATAGAA	CAATTTGTCCGAGTTTCACAAAAGCCTT	1198		
Db	1217	CGTCCAGTGGACGAGTATCAAGAGAAATAGAA	CAATTTGTCCGAGTTTCACAAAAGCCTT	1276		
Qy	1199	TTATTTGCTTTTGGTATGAGGATGAATCTTTTGT	TGAAGCCA	CAGTGGCAGTCAAGTCC	1258	
Db	1277	TTATTTGCTTTTGGTATGAGGATGAATCTTTTGT	TGAAGCCA	CAGTGGCAGTCAAGTCC	1336	
Qy	1259	GAATCCCTGTGAAGATATCTCAGTTACCAAGCT	CTCGATATCAAAATGTGATACAGAAATGGA	1318		
Db	1337	GAATCCCTGTGAAGATATCTCAGTTACCAAGCT	CTCGATATCAAAATGTGATACAGAAATGGA	1396		

Qy	1319	GGCCCATGTAAGTCAACTACACATGATTTGTGGGATGA	ACTCA	CAATCATGGAAGTGA	1378
Db	1397	GGCCCATGTAAGTCAACTACACATGATTTGTGGGATGA	ACTCA	CAATCATGGAAGTGA	1456
Qy	1379	CTGAAAGAGATGACAGAAA	CTACAGCGTATCTTCACCA	CCCCCAATTCATGAGAAA	1438
Db	1457	CTGAAAGAGATGACAGAAA	CTACAGCGTATCTTCACCA	CCCCCAATTCATGAGAAA	1516
Qy	1439	AGAGCCATAGTCTCTCTGTGTGTGAATGTGCCA	CCCCCAATTCATGAGAAA	AGCCTTGA	1498
Db	1517	AGAGCCATAGTCTCTCTGTGTGTGAATGTGCCA	CCCCCAATTCATGAGAAA	AGCCTTGA	1576
Qy	1499	TCTGCGCTATGGAATCTTACACAGTATGGGACCAT	GCATGACATGACAGTCTACG	1558	
Db	1577	TCTGCGCTATGGAATCTTACACAGTATGGGACCAT	GCATGACATGACAGTCTACG	1636	
Qy	1559	CCAACTCTCCCTGACCAATCCAGTGTATCTGGAC	CTAGAAAGAGCTCTCTCA	1618	
Db	1637	CCAACTCTCCCTGACCAATCCAGTGTATCTGGAC	CTAGAAAGAGCTCTCTCA	1696	
Qy	1619	GACCCGCGCAACAAAGCCCGTATGCTTTGTAAGAA	TGAGACAGTGGAGATTTCCAG	1678	
Db	1697	GACCCGCGCAACAAAGCCCGTATGCTTTGTAAGAA	TGAGACAGTGGAGATTTCCAG	1756	
Qy	1679	GGGGAACAAAGTGAAGTCAACCAAAACCAATATG	CCCTGATGGAAGAAAA	CAAAA	1738
Db	1757	GGGGAACAAAGTGAAGTCAACCAAAACCAATATG	CCCTGATGGAAGAAAA	CAAAA	1816
Qy	1739	CTGTAGTACGCTGTGCTATCCAAAGTGC	CAACGCTGTGTA	CAAAATGTGAAGCA	1798
Db	1817	CTGTAGTACGCTGTGCTATCCAAAGTGC	CAACGCTGTGTA	CAAAATGTGAAGCA	1876
Qy	1799	TCAACAAAGCGGAGACGAGAGAGAGGTCATCT	CTTCAATGTATCA	CGGGTCTGTAAA	1858
Db	1877	TCAACAAAGCGGAGACGAGAGAGAGGTCATCT	CTTCAATGTATCA	CGGGTCTGTAAA	1936
Qy	1859	TTACTGTCAACCTGCTGCCAGCACTGACAGAG	AGAGTGTGCTCCCTGTGTGCACTG	1918	
Db	1937	TTACTGTCAACCTGCTGCCAGCACTGACAGAG	AGAGTGTGCTCCCTGTGTGCACTG	1996	
Qy	1919	CAGACAGAAATACGTTTGAGAACTCAGGTGTG	CAACCTTGCTCACAGGCAACATCG	1978	
Db	1997	CAGACAGAAATACGTTTGAGAACTCAGGTGTG	CAACCTTGCTCACAGGCAACATCG	2056	
Qy	1979	TCCACATGGCGGAATCATCTCACACGATTTGCA	AAATCTTGGAATCTG	2038	
Db	2057	TCCACATGGCGGAATCATCTCACACGATTTGCA	AAATCTTGGAATCTG	2116	
Qy	2039	ATGGACCATGTTTTCTTAACAGCAACAATGAC	ATTTGATGTGGCA	TTTGCAAGATGCT	2098
Db	2117	ATGGACCATGTTTTCTTAACAGCAACAATGAC	ATTTGATGTGGCA	TTTGCAAGATGCT	2176
Qy	2099	CTTGGACAGACCAAGCGCATGATTTGTGCTCTG	CTCAAGATTA	GAAGACCAAGAAAGAC	2158
Db	2177	CTTGGACAGACCAAGCGCATGATTTGTGCTCTG	CTCAAGATTA	GAAGACCAAGAAAGAC	2236
Qy	2159	ATTGCTGTGTGAACACGTCTATCTTGAAGCG	ATGACACCATGATCA	CCGGAATC	2218
Db	2237	ATTGCTGTGTGAACACGTCTATCTTGAAGCG	ATGACACCATGATCA	CCGGAATC	2296
Qy	2219	TGAGAAATCAGACAAACAATTTGGCGAGACCAT	TGAAAGTGA	CTTGCCACATCTGGA	2278
Db	2297	TGAGAAATCAGACAAACAATTTGGCGAGACCAT	TGAAAGTGA	CTTGCCACATCTGGA	2356
Qy	2279	ATCTTACCCCAACATTAATGATGTTCA	AAAGCAACGAGACCTGTGTAGAA	ATTTCAAGCA	2338
Db	2357	ATCTTACCCCAACATTAATGATGTTCA	AAAGCAACGAGACCTGTGTAGAA	ATTTCAAGCA	2416
Qy	2339	TTGTATCAGAGATGGAACCGGAACTGATAT	CCGAGGATGAGAAAGAGATGAG	2398	
Db	2417	TTGTATCAGAGATGGAACCGGAACTGATAT	CCGAGGATGAGAAAGAGATGAG	2476	
Qy	2399	GCTCTACACCTGCGACGCTGCAATGCTTG	CTGTGCAAGAGCGGACGCTCTCA	2458	

|||||
Db 2477 GCCTCTACCTGCGAGCCCTGCAATGCTCTTGCTGCGAAGCGGAGCGCTCTTCA 2536
Qy 2459 TAATAGAAAGGCGCCAGGAAAGACCAACTGGAAGCATATCTCTGTGGCACTGAG 2518
Db 2537 TAAATAGAAAGGCGCCAGGAAAGACCAACTGGAAGCATATCTCTGTGGCACTGAG 2536
Qy 2519 TGATGGCATGTTCTTCTGCTCTCTTCTTGTCTATGTCCTACGGAACGGTTAAGCGGCA 2578
Db 2597 TGATGGCATGTTCTTCTGCTCTCTTCTTGTCTATGTCCTACGGAACGGTTAAGCGGCA 2556
Qy 2579 ATGAAGGGGAACTGAAGCAGGCTACTTGTCTATGTCATGATCCAGATGAATGGCCT 2638
Db 2657 ATGAAGGGGAACTGAAGCAGGCTACTTGTCTATGTCATGATCCAGATGAATGGCCT 2716
Qy 2639 TGGATGAGCGCTGGAACGCTTGCTTATGATGCGAGCAATGGGAATTCGCCAGGGAC 2698
Db 2717 TGGATGAGCGCTGGAACGCTTGCTTATGATGCGAGCAATGGGAATTCGCCAGGGAC 2776
Qy 2699 GGCCTGAAACTAGGAAACCTCTTGCGCGCGGTGCTTGGCCAAAGTATTGAGGCAAG 2758
Db 2777 GGCCTGAAACTAGGAAACCTCTTGCGCGCGGTGCTTGGCCAAAGTATTGAGGCAAG 2836
Qy 2759 CTTTGGAAATTGAACAAGCAGCGCTTGCAAAACAGTAGCCGTCAAGATTGTTGAAGAAG 2818
Db 2837 CTTTGGAAATTGAACAAGCAGCGCTTGCAAAACAGTAGCCGTCAAGATTGTTGAAGAAG 2896
Qy 2819 GAGCAACACAGGAGGATGAGGCCCTCATGTCGAACTCAAGTCCCTCATCCACATTC 2878
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Qy 2879 GTCAACATCTCAATGTGTGTGAACCTCTGAGCGCTGCAACCAAGCCGGAGGGCTCTCA 2938
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Qy 3119 CCAAGCTCAGGCTTTGTTGAGAGAAATGCTCAGTGAATGTTAGAGAAAGAAAGCTTCTG 3178
Db 3197 CCAAGCTCAGGCTTTGTTGAGAGAAATGCTCAGTGAATGTTAGAGAAAGAAAGCTTCTG 3256
Qy 3179 AAGAAGCTGTACAAGACTCTCTGACCTTGAGCACTCATCTGTTACAGCTTCCAGTGG 3238
Db 3257 AAGAAGCTGTACAAGACTCTCTGACCTTGAGCACTCATCTGTTACAGCTTCCAGTGG 3316
Qy 3239 CTAAGGGCATGAGTCTTGGCATCAAGAAAGTATCAACAGGACCTTGGCAGACGAA 3298
Db 3317 CTAAGGGCATGAGTCTTGGCATCAAGAAAGTATCAACAGGACCTTGGCAGACGAA 3376
Qy 3299 ACATTTCTCTATCGGAGAAAGATGTGTTAAGATCTGAGACTTGGGCTTGGCCGGGACA 3358
Db 3377 ACATTTCTCTATCGGAGAAAGATGTGTTAAGATCTGAGACTTGGGCTTGGCCGGGACA 3436
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Db 3737 TTTTCAGGTTGTGGAGCATTTTGGGAAACCTCCGCAAGGAAATGCGCAGAGATGGCA 3796
Qy 3719 AAGACTATATTGTTCTTCCATATGTACAGAGCACTGAGCATGGAAGAGATTTGCACTCT 3778
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Db 4577 TGTGCTCTACATACAGTTAAAGCAAAAGCTTTCAAAACAGTGAATCTGTCTCCAG 4636
Qy 4558 AAGTGGCAAGGCAACCTGTGAAATCTGAAATCGAATGGGGCAATCTTGTGTGTTGAGA 4617
Db 4637 AAGTGGCAAGGCAACCTGTGAAATCTGAAATCGAATGGGGCAATCTTGTGTGAGA 4696
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Oy      4618 TGGGAGATGTCGCCAGGGCCGAGTCTGTCACTTTGAAGCCTTTGTGAGAATGC -GSC 4676
Db      4697 TGGGAGAGATGTGCCAGGGCCGAGTCTGTCACTTTGAAGCCTTTGTGAGAATGC -GSC 4756
Oy      4677 TATGAGCCAAGTATTAAAGTGAGGATGTGACTTGAGAGGAGGAGGACAGTGGCTCG 4736
Db      4757 TATGAGCCAAGTATTAAAGTGAGGATGTGACTTGAGAGGAGGAGGACAGTGGCTCG 4816
Oy      4737 GAGAGCGGTTGAGAGCTGAGATGCAATGTGCTGTGCTGTGAGAGTGAGGCTTTGACC 4796
Db      4817 GAGAGCGGTTGAGAGCTGAGATGCAATGTGCTGTGCTGTGAGAGTGAGGCTTTGACC 4876
Oy      4797 TGTCAGGAAAGCAAAGGCGGCGCGCAGAGGTTTTGGTTTTGGAAAGTTTTGCCGCTTCA 4856
Db      4877 TGTCAGGAAAGCAAAGGCGGCGCGCAGAGGTTTTGGTTTTGGAAAGTTTTGCCGCTTCA 4936
Oy      4857 CAGTCGGGTTTACAGGCGAGATTCCCTGTGGCGTTTCTCACTCTTAATGAGAGTTCCCTCG 4916
Db      4937 CAGTCGGGTTTACAGGCGAGATTCCCTGTGGCGTTTCTCACTCTTAATGAGAGTTCCCTCG 4996
Oy      4917 GACTCTTACGTGTCTTCCTGTGGCTGGCCCCAGAGAGAAATGATGACGCTTGTCTTCT 4976
Db      4997 GACTCTTACGTGTCTTCCTGTGGCTGGCCCCAGAGAGAAATGATGACGCTTGTCTTCT 5056
Oy      4977 CATCTCTAAGGCTGTGCTTAATTAGAACAACAAAGAGAGAACGTGCGAGAGGCTC 5036
Db      5057 CATCTCTAAGGCTGTGCTTAATTAGAACAACAAAGAGAGAACGTGCGAGAGGCTC 5116
Oy      5037 CTGACGGGGCCGAGAAATGTGAGAAACAGAACAGAACTCAGGGTTTTCTGTGGGTGAG 5096
Db      5117 CTGACGGGGCCGAGAAATGTGAGAAACAGAACAGAACTCAGGGTTTTCTGTGGGTGAG 5176
Oy      5097 ACCACGCTGGCGCCTCTGTGGCAGGTCTGAGGGTTCTGTCAATGCGGTAAAGGCTC 5156
Db      5177 ACCACGCTGGCGCCTCTGTGGCAGGTCTGAGGGTTCTGTCAATGCGGTAAAGGCTC 5236
Oy      5157 AGGCTGTGTTCTTCTCTCATCTCACGCTCTGAGGGCCCCAAGTCCCGAGTATTTAG 5216
Db      5237 AGGCTGTGTTCTTCTCTCATCTCACGCTCTGAGGGCCCCAAGTCCCGAGTATTTAG 5296
Oy      5217 CTTGTGGCTTCTGTATGGCAGAAAATCTTAATTGTTGTTGTTGCTCTCCAGATAATCA 5276
Db      5297 CTTGTGGCTTCTGTATGGCAGAAAATCTTAATTGTTGTTGTTGCTCTCCAGATAATCA 5356
Oy      5277 CTAGCGAATTTCCAAATTACTTTTAAAGCCAGGTTATGATPACATCTACTGATCTTT 5336
Db      5357 CTAGCGAATTTCCAAATTACTTTTAAAGCCAGGTTATGATPACATCTACTGATCTTT 5416
Oy      5337 AGAATTTAACCTATPAAAACTATGCTAATGTTTTCTGCTGTGCTGATATTGTT 5390
Db      5417 AGAATTTAACCTATPAAAACTATGCTAATGTTTTCTGCTGTGCTGATATTGTT 5470

USRESULT 3
US-09-967-655-10
Sequence 10, Application US/09967655
Parent No. 6734017
GENERAL INFORMATION:
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR EXPRESSION
FILE REFERENCE: RFS-0227
CURRENT APPLICATION NUMBER: US/09/967,655
NUMBER OF SEQ ID NOS: 95
SEQ ID NO 10
LENGTH: 5470
TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: CDS

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	Query Match	99.2%;	Score 5346;	DB 3;	Length 5470;	
	Beet Local Similarity	99.9%;	Pred. No. 0;			
	Matches 5390;	Conservative 0;	Mismatches 0;	Indels 4;	Gaps 4;	
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DB	77 CTGTGTCGGGAGGC - GGAATACCTGGGTGACCCGATTCCGGGAGACCCGGTG - CAGCG					136
QY	59 CGCGTGAGCCAGGCGCGCGGTGCGCCGCTCTCCCGATCTTGCGCTGCGGGGCCAT					118
DB	137 CGCGTGAGCCAGGCGCGCGGTGCGCCGCTCTCCCGATCTTGCGCTGCGGGGCCAT					196
QY	119 ACCGCTTGTGACTCTTCTTGCGGGCCAGGGAACGAGAGTGTGTGCTTGAGAACT					178
DB	197 ACCGCTTGTGACTCTTCTTGCGGGCCAGGGAACGAGAGTGTGTGCTTGAGAACT					256
QY	179 GGGCTGTGCGCCAGGCGCGAGGTGAGAGATGAGAGCAAGGCGCTGTACTGTGCTC					238
DB	257 GGGCTGTGCGCCAGGCGCGAGGTGAGAGATGAGAGCAAGGCGCTGTACTGTGCTC					316
QY	239 TGTGATTCGTGCTGAGACCCGAGCCGCTCTGTGTGGTTTGACTGCGCATTTTTCATC					298
DB	317 TGTGATTCGTGCTGAGACCCGAGCCGCTCTGTGTGGTTTGACTGCGCATTTTTCATC					376
QY	289 CCCCCAGCTCAGACACAGAAACATATCTGACAAATTTGGCAATATACACCTTCAGA					358
DB	377 CCCCCAGCTCAGACACAGAAACATATCTGACAAATTTGGCAATATACACCTTCAGA					436
QY	359 TTACTTGCAGGGGACAGCGGGACCTGTGACTGGCTTTGGCCCAATGCTCAGCGTATCTG					418
DB	437 TTACTTGCAGGGGACAGCGGGACCTGTGACTGGCTTTGGCCCAATGCTCAGCGTATCTG					496
QY	419 AGGAAAGGATTTGCTGACTGATATGCGCGGTGTGACATATTTCTGCAAAACATCTA					478
DB	497 AGGAAAGGATTTGCTGACTGATATGCGCGGTGTGACATATTTCTGCAAAACATCTA					556
QY	479 CCATTTCCAGGGGTGTGAAATATATATCTGAGGCTCAAGTGTCTGTAACGGGACGTG					538
DB	557 CCATTTCCAGGGGTGTGAAATATATATCTGAGGCTCAAGTGTCTGTAACGGGACGTG					616
QY	539 ACATAGCCTCACTGTTTATGCTATGTGTTGAGATTACATCCATTCATGCGCTCTG					598
DB	617 ACATAGCCTCACTGTTTATGCTATGTGTTGAGATTACATTCATTCATGCGCTCTG					676
QY	599 TCAGTGACACGACATGAGCATGTGTATCATACCCAGAACAAAGAACAAATCTGTGTATCC					658
DB	677 TCAGTGACACGACATGAGCATGTGTATCATACCCAGAACAAAGAACAAATCTGTGTATCC					736
QY	659 CCTGCCAGAGGTGATTTCAAACTCATATGTCTCTTTCGGCTAGGTTATCAGAAAGA					718
DB	737 CCTGCCAGAGGTGATTTCAAACTCATATGTCTCTTTCGGCTAGGTTATCAGAAAGA					796
QY	719 GATTTGTTCCGATGGAACAGAAATTTCTGCGGACAGCGAGATATGCTTTACTTCCCCA					778
DB	797 GATTTGTTCCGATGGAACAGAAATTTCTGCGGACAGCGAGATATGCTTTACTTCCCCA					856
QY	779 GTTACATGATCAGCTATGCGGACATGTGCTCTGTGAGGCAAAAGATCAATGATGAAACT					838
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QY	899 GCCCCCGGCAATGAAATTGAGCTATCTGCGGAGAAACCTTGTCTTAATTTGTAACAGCA					958
DB	977 GCCCCCGGCAATGAAATTGAGCTATCTGCGGAGAAACCTTGTCTTAATTTGTAACAGCA					1036
QY	959 GAAACAGCTCAATGTGGGCTGATTTCACTTGACCTTCACCTTCAAGTCTCATC					1018

Db 1037 GAACAGAGCTCAATGTGGGGCTTGATTTACCTGGCACTCTCCACCTTCAAGATCTCATC 1096
Qy 1019 ATAAGAAAGATTGTAAACCGGGAGTGAACCCCTTCTCTGGAGCTGTGGCGAAGATGTTTT 1078
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Qy 1199 TTATTTGCTTTGGTAGTGGAGTGAATCTTTGTGGAGCAACAGTGGGAGTCAAGTCC 1258
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Qy 1799 TCACAAAGCCGGAGCAGAGAGAGGGTCACTCTCTTCATGTGATCAGGGGTCTGTAAA 1858
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Qy 1859 TTACTGTGCAACTGTGCTGCCAGCAACTGAGCAGAGAGTGTGCCCTGTTTGTGCACTG 1918
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Qy 1919 CAGACAGAAATACGTTTGAGAACTCAAGTGTGTCAAGCTTTGGCTCACAGGCAACATCGG 1978
Db 1997 CAGACAGAAATACGTTTGAGAACTCAAGTGTGTCAAGCTTTGGCTCACAGGCAACATCGG 2056
Qy 1979 TCACATATGGGGAATCACTCAACAGTTTGAAGAACTTGGATGCTTTTGGAAATCGA 2038
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QY 3539 AAGAAATTTGTAGAGATTGAAGAGAACTAGAATGCGGGCTCTGACTACACTACCC 3598
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Db 3617 AAGAAATTTGTAGAGATTGAAGAGAACTAGAATGCGGGCTCTGACTACACTACCC 3676
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QY 3599 CAGAAATGTACCAAGCATGCTGGAGCTGTGGCATGAGGACCCCAACAGAGACCTCTGT 3658
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Db 3677 CAGAAATGTACCAAGCATGCTGGAGCTGTGGCATGAGGACCCCAACAGAGACCTCTGT 3736
| | | | |
QY 3659 TTTGAGAGTTGGTGGAGCTTTGGGAAACCTCTGCAAGCAATGCGCAGAGATGGCA 3718
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QY 3779 CCCTGCTTACCTCACTGTTTCTGTATGAGAGAAAGAGAGTGTGCCAATTC 3838
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Db 3857 CCCTGCTTACCTCACTGTTTCTGTATGAGAGAAAGAGAGTGTGCCAATTC 3916
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QY 3839 ATTATGACAAACAGAGGAATCAGTCATATCTCCAGAACAGTAAGGGAAGAGCCGGC 3898
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QY 3899 CAGTAGTGTAAAAATTTGAAAGATATCCATTGGAGGAACAGAAAGTAAAAAGTATCC 3958
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Db 3977 CAGTAGTGTAAAAATTTGAAAGATATCCATTGGAGGAACAGAAAGTAAAAAGTATCC 4036
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QY 3959 CAGATGACAGCCAGACAGACAGTGGATGTCTTGGCATCAGAAAGCTGAAAATCTTGG 4018
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QY 5037 CTGACGGGCGGAGAAATTTGAGAACAGAACAGAACTCAGGGTTTCTGCTGGGTGAG 5096
| | | | |
Db 5117 CTGACGGGCGGAGAAATTTGAGAACAGAACAGAACTCAGGGTTTCTGCTGGGTGAG 5176
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QY 5157 AGGCTGTGTCTTCTCTATCTCCACTCTGTGAGGCCCAAGTCTCTAGATATTTAG 5216
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Db 5237 AGGCTGTGTCTTCTCTATCTCCACTCTGTGAGGCCCAAGTCTCTAGATATTTAG 5296
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QY 5277 CTAGCCAGATTTGAAATTAATCTTTTACCGAGGTTATGATPAACATCACTACTATCTTT 5336
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QY 5337 AGAATTTTAACTATAAACTATGTCTACTGTGTTCTGCTGTGCTTATGTT 5390
| | | | |

Db 5417 AGAATTAACTATAAACTATGCTACTGCTTTCTGCTGTGCTTATGTT 5470

RESULT 4
US-09-766-678-1
Sequence 1, Application US/09766678
Patent No. 6872699
GENERAL INFORMATION:
APPLICANT: Vilitich, Axel
Riseau, Werner
Millauner, Birgit
Gazit, Aviv
Levitcki, Alex
TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
Endothelial Growth Factor
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/766,678
FILING DATE: 25-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/193,829
FILING DATE: 09-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-060
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5470 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 286..4386
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-766-678-1

Query Match 99.2%; Score 5346; DB 3; Length 5470;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5390; Conservative 0; Mismatches 0; Indels 4; Gaps 4;

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Db 77 CTGTGTCCCGGACGC-GGATAACCTGAGTGAACCGGATTCGCGGACACCGCTGACAGCG 136
Qy 59 CGGCTGAGACGAGGCGCGCGCTCTCCCGGATCTTTCGCTGCGGGGGCCAT 118
Db 137 CGGCTGAGACGAGGCGCGCGCTCTCCCGGATCTTTCGCTGCGGGGGCCAT 196
Qy 119 ACCGCTCTGTGACTCTTTTGGGGGCAAGGACGGAAGAGTCTGTGCTGAGAACT 178
Db 197 ACCGCTCTGTGACTCTTTTGGGGGCAAGGACGGAAGAGTCTGTGCTGAGAACT 256
Qy 179 GGGCTCTGTGCCAGGCGCGAGGTGACAGATGAGAGCAAGCGCTGCTAGCTGCGCTC 238

Db 257 GGGCTCTGTGCCAGGCGCGAGGTGACAGATGAGAGCAAGCGCTGCTAGCTGCGCTC 316
Qy 239 TGTGGTTCTGCGTGAAGACCCGAGCGGCTCTGTGGGTTTGACTGACGATTTTCTCATC 298
Db 317 TGTGGTTCTGCGTGAAGACCCGAGCGGCTCTGTGGGTTTGACTGACGATTTTCTCATC 376
Qy 299 CCCCCAAGCTCAGCACACAGAAAGACATATGACAAATTTTGGCAAAATCAACCCCTTCAGA 358
Db 377 CCCCCAAGCTCAGCACACAGAAAGACATATGACAAATTTTGGCAAAATCAACCCCTTCAGA 436
Qy 359 TTACTTGAAGGGGACAGGGGACCTGACCTGGCTTTGGCCCAATGCTCAGGTGATTTCTG 418
Db 437 TTACTTGAAGGGGACAGGGGACCTGACCTGGCTTTGGCCCAATGCTCAGGTGATTTCTG 496
Qy 419 AGAAAGGATTAATGTAAGTGAATGCGGCGGTGAGCAGTATCTTTCGCAAAACATCA 478
Db 497 AGAAAGGATTAATGTAAGTGAATGCGGCGGTGAGCAGTATCTTTCGCAAAACATCA 556
Qy 479 CCATTCCAGGGGTGTTGAAATGATATGAGGCTTACAGTGTCTGTACCGGACGTG 538
Db 557 CCATTCCAGGGGTGTTGAAATGATATGAGGCTTACAGTGTCTGTACCGGACGTG 616
Qy 539 ACATAGCCTCCAGCTTTATATGTTATGTTGAGATTAACATTCACATTCGCTCTG 598
Db 617 ACATAGCCTCCAGCTTTATATGTTATGTTGAGATTAACATTCACATTCGCTCTG 676
Qy 599 TCAGTACACACATGACATGCTGTATACATCACCGAAGCAAGAACTGTGATCC 658
Db 677 TCAGTACACACATGACATGCTGTATACATCACCGAAGCAAGAACTGTGATCC 736
Qy 659 CCTGCCAGGGTGCATTTCAAACTCAATGTCTCTTTGGCGTAGTATCCAGAAAGA 718
Db 737 CCTGCCAGGGTGCATTTCAAACTCAATGTCTCTTTGGCGTAGTATCCAGAAAGA 796
Qy 719 GATTTTCCGGATGAGAAACGAATTTCCCTGGGACAGGAAATAGGCTTTCTCTCCCA 778
Db 797 GATTTTCCGGATGAGAAACGAATTTCCCTGGGACAGGAAATAGGCTTTCTCTCCCA 856
Qy 779 GTTACATGATGAGCTATGCGCGCATGCTCTCTGTGAGGCAAAATCAATGATGAAACT 838
Db 857 GTTACATGATGAGCTATGCGCGCATGCTCTCTGTGAGGCAAAATCAATGATGAAACT 916
Qy 839 ATCAGTCTATCATGATGATGATGTTGTTGATGATATGAGATTTATGATGATTTCTGA 898
Db 917 ATCAGTCTATCATGATGATGATGTTGTTGATGATATGAGATTTATGATGATTTCTGA 976
Qy 899 GCCCCCGCATGAATTAATGAGCTATCTGCGGAGAAATCTGTCTTAAATGTACAGCGA 958
Db 977 GCCCCCGCATGAATTAATGAGCTATCTGCGGAGAAATCTGTCTTAAATGTACAGCGA 1036
Qy 959 GAACAGAGCTCAATGTGGGGCTTGAATTCACCTGGCACTCCACCTTCAAAAGTCTATC 1018
Db 1037 GAACAGAGCTCAATGTGGGGCTTGAATTCACCTGGCACTCCACCTTCAAAAGTCTATC 1096
Qy 1019 ATTAAGAAAGATTGAACCGGAGTGAACCCCTTCTCGGAGCTGTGGCAAGATGTTTT 1078
Db 1097 ATTAAGAAAGATTGAACCGGAGTGAACCCCTTCTCGGAGCTGTGGCAAGATGTTTT 1156
Qy 1079 TGACACCTTGACAAATGAAGTGTGACCAAGATGACCAAGGGGAATACACCTGTGAG 1138
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Db 1217 CGTCAAGTGAACGATATCAAGAGAAATAGAACATTTGTCCAGTTTCAACAAGCTT 1276
Qy 1199 TTATTTCTTTCGTAAGTGAAGTGAATCTTTTGTGGAAGCCACAGTGGGACGTCAAGTCC 1258
Db 1277 TTATTTCTTTCGTAAGTGAAGTGAATCTTTTGTGGAAGCCACAGTGGGACGTCAAGTCC 1336
Qy 1259 GAATCCCTGGAATATCTAGTTAACCAAGTCTGTATATCAATTTGTACGAATATGAA 1318

Db	1337	GAATCCCTGTGAAGTATCTCACTTACCCAGCTCTGATATATCAATATGTATCAAGAAATGGAA	1396
Qy	1319	GGCCCATTTGAGTCCAACTACACAAATGATTTGTGGCATGAACTCCACATCAATGGAATGA	1378
Db	1397	GGCCCATTTGAGTCCAACTACAAATGATTTGTGGGATGGAATCACTCAATCATGTGAATGA	1456
Qy	1319	CTGAAGAAGATCAGAGAACTACACGGTCACTTCACCAATCCCATTTCAATGGAAGAAC	1438
Db	1457	CTGAAGAAGATCAGAGAACTACACGGTCACTTCACCAATCCCATTTCAATGGAAGAAC	1516
Qy	1439	AGAGCCACATGGTCTCTCGGTGTGGAAATGTCCCAATCCCAATATGCTGTGAAGAAATCCCTTGA	1498
Db	1517	AGAGCCACATGGTCTCTCGGTGTGGAAATGTCCCAATCCCAATATGCTGTGAAGAAATCCCTTGA	1576
Qy	1499	TCTCGCATATGGATTCCTAACAGTATGGGACCATATGACATGATGACATGACATGCTACG	1558
Db	1577	TCTCGCATATGGATTCCTAACAGTATGGGACCATATGACATGATGACATGACATGCTACG	1636
Qy	1559	CCAACTCTCCCTGTCACCAATCCAGTGTGATCTGGCAGCTGAGAAAGACCTGCTCTACCA	1618
Db	1637	CCAACTCTCCCTGTCACCAATCCAGTGTGATCTGGCAGCTGAGAAAGACCTGCTCTACCA	1696
Qy	1619	GACCCGGGCAACCAAGCCCGTATGCTTTGAAGAATGGAACACGTGAGAGATTTCCAGG	1678
Db	1697	GACCCGGGCAACCAAGCCCGTATGCTTTGAAGAATGGAACACGTGAGAGATTTCCAGG	1756
Qy	1679	GGGGAAACAAAGATCGAAGTCAACCAAAACCAATATAGCCCTGATGAAGAAACAAACAA	1728
Db	1757	GGGGAAACAAAGATCGAAGTCAACCAAAACCAATATAGCCCTGATGAAGAAACAAACAA	1816
Qy	1739	CTGTAAATACGTGTGTCATCCAAAGCTGCAACGTGTACAGCTGTGTATCAATATGTGAAGCA	1798
Db	1817	CTGTAAATACGTGTGTCATCCAAAGCTGCAACGTGTACAGCTGTGTATCAATATGTGAAGCA	1876
Qy	1799	TCAACAAACCGGGAGAGAGAGAGAGGTCATCTCTTCATATGTATCAAGGGGTCTTGAA	1858
Db	1877	TCAACAAACCGGGAGAGAGAGAGAGGTCATCTCTTCATATGTATCAAGGGGTCTTGAA	1936
Qy	1859	TTACTGTGCAACCTGCTGCCAGCCAACTGAGCAGAGAGATGTGCCCTGTGTGCACTG	1918
Db	1937	TTACTGTGCAACCTGCTGCCAGCCAACTGAGCAGAGAGATGTGCCCTGTGTGCACTG	1996
Qy	1919	CAGACAGAAATACGTTTGAAGACCTCAAGTGTGTCAAGCTTGGCTCACAGGCAACATCGG	1978
Db	1997	CAGACAGAAATACGTTTGAAGACCTCAAGTGTGTCAAGCTTGGCTCACAGGCAACATCGG	2056
Qy	1979	TCCACATGTGGGGAATCACTCAACCAAGTTTGAAAGAACTTGGATGCTCTTTGAAACTGA	2038
Db	2057	TCCACATGTGGGGAATCACTCAACCAAGTTTGAAAGAACTTGGATGCTCTTTGAAACTGA	2116
Qy	2039	ATGGCAGCATGTTTCTTAAACAGCAAAATGACATCTTGAATGTGGCAATTCAGAAATCCCT	2098
Db	2117	ATGGCAGCATGTTTCTTAAACAGCAAAATGACATCTTGAATGTGGCAATTCAGAAATCCCT	2176
Qy	2099	CTCTGCAAGACCAAGGCGACTATGTTTGTCTGTGCTCAAGATAAAGACCAAGAAAGAC	2158
Db	2177	CTCTGCAAGACCAAGGCGACTATGTTTGTCTGTGCTCAAGATAAAGACCAAGAAAGAC	2236
Qy	2159	ATTGCTGTGTCAAAAGCTCATCATCTTAAAGCGATGTGCCATCATCGGAATATC	2218
Db	2237	ATTGCTGTGTCAAAAGCTCATCATCTTAAAGCGATGTGCCATCATCGGAATATC	2296
Qy	2219	TGGAGAAATCAAGCAACCAATGTGGCGAGACATTTGAAGTGAATTTGGCCCAAGCATCTGAA	2278
Db	2297	TGGAGAAATCAAGCAACCAATGTGGCGAGACATTTGAAGTGAATTTGGCCCAAGCATCTGAA	2356
Qy	2279	ATCTTACCCCAACATTAATGATGTTTCAAAAGCAACGAGACCTGTGTGAAGATTCAGGCA	2338
Db	2357	ATCTTACCCCAACATTAATGATGTTTCAAAAGCAACGAGACCTGTGTGAAGATTCAGGCA	2416
Qy	2339	TTGTATCTGAGAGATGGGAACCGGAACCTGACTATCCGACGGGTGAGGAAGAGATGAG	2398
Db	2417	TTGTATCTGAGAGATGGGAACCGGAACCTGACTATCCGACGGGTGAGGAAGAGATGAG	2476

QY	2359	GCCTTCAACCTGCCAGGCTCTGCATATGCTCTTGCTGTGCAGAGCGGAGACGCTCTTCA	2458
Db	2477	GCCTTCAACCTGCCAGGCTCTGCATATGCTCTTGCTGTGCAGAGCGGAGACGCTCTTCA	2536
QY	2459	TAATGAAAGGTGCCAGGAAAAGACCAACTGGAAAGTCATTATCTCGTGGGCACTGCAG	2518
Db	2537	TAATGAAAGGTGCCAGGAAAAGACCAACTGGAAAGTCATTATCTCGTGGGCACTGCAG	2596
QY	2519	TGATTCGCATGTTCTTCTGGCTCCTCTTGTCAATGTCCTACGGACCGTTAAAGCGGCCA	2578
Db	2597	TGATTCGCATGTTCTTCTGGCTCCTCTTGTCAATGTCCTACGGACCGTTAAAGCGGCCA	2656
QY	2579	ATGAAAGGGGAACCTAAGACAGGCTACCTGTCTATATGTCATGAGATCCAGATGAAATTTGCCCT	2638
Db	2657	ATGAAAGGGGAACCTAAGACAGGCTACCTGTCTATATGTCATGAGATCCAGATGAAATTTGCCCT	2716
QY	2639	TGATGAGCGCTGTGAACGCTTGCTTATGATGTCAGACAAAGTGGGAATTTCCAGGAGAC	2698
Db	2717	TGATGAGCGCTGTGAACGCTTGCTTATGATGTCAGACAAAGTGGGAATTTCCAGGAGAC	2776
QY	2659	GGCTGAAACTTGGAAAACTTTTGGCCGCGGTGCTTCCGCAAGTATTTGAGCAGACG	2758
Db	2777	GGCTGAAACTTGGAAAACTTTTGGCCGCGGTGCTTCCGCAAGTATTTGAGCAGACG	2836
QY	2759	CTTTTGGAAATGGAACAAGACAGCACTTGCAAAAACAGTAGCCGTCAAGATGTTGAAAAGAG	2818
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QY	2879	GTCACACTCTCAATGTGTGTGAACCTCCTAGCCGCTGCACAAAGCCGGAGAGGCTCTCA	2938
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QY	2939	TGTGATTTGTGGAATTTGTGCMAAGTTTGGAAAACCTATCACTTACTTAACGGGGCAAGAA	2998
Db	3017	TGTGATTTGTGGAATTTGTGCMAAGTTTGGAAAACCTATCACTTACTTAACGGGGCAAGAA	3076
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Db	3077	ATGAAATTTGTTCCCTATTAAGACCAAGGGGACGCTTCCGCAAGGCGCAAGACTAGCTTG	3136
QY	3059	GGGAGCTCTCCGTGGATCTGAAAAGAGGCTTGGACAGATCAACAGACGCCAGAGCTCTG	3118
Db	3137	GGGAGCTCTCCGTGGATCTGAAAAGAGGCTTGGACAGATCAACAGACGCCAGAGCTCTG	3196
QY	3119	CCAGCTCAGGCTTTGTTGAGAGAAATCGCTCAGTGAATGTAAGGAAGAAAGAACTTCTG	3178
Db	3197	CCAGCTCAGGCTTTGTTGAGAGAAATCGCTCAGTGAATGTAAGGAAGAAAGAACTTCTG	3256
QY	3179	AAGAACTGTACAGAGACTTCTCTGACTTTGGAGCATCTCATCTGTACAGCTTCCAACTGG	3238
Db	3257	AAGAACTGTACAGAGACTTCTCTGACTTTGGAGCATCTCATCTGTACAGCTTCCAACTGG	3316
QY	3239	CTAAGGCGATGGAATTTCTTGCACTCAAGAAAGTGTATCCACAGGAGACTTGGCAGACGAA	3298
Db	3317	CTAAGGCGATGGAATTTCTTGCACTCAAGAAAGTGTATCCACAGGAGACTTGGCAGACGAA	3376
QY	3289	ACATTTCTCTATCGGAGAAAGATGTGTTAAGTCTGTGACTTGGCTTGGCCCGGGACA	3358
Db	3377	ACATTTCTCTATCGGAGAAAGATGTGTTAAGTCTGTGACTTGGCTTGGCCCGGGACA	3436
QY	3359	TTTATTAAGACCCGGATTTATGTGCAGAAAAGAGATGCCAGCTCCCTTTAAGTGAATGG	3418
Db	3437	TTTATTAAGACCCGGATTTATGTGCAGAAAAGAGATGCCAGCTCCCTTTAAGTGAATGG	3496
QY	3419	CCCCGAAACCAATTTTGAACAGATATACAAATTCACAGCAGATGTGTGCTTTTCGGTG	3478
Db	3497	CCCCGAAACCAATTTTGAACAGATATACAAATTCACAGCAGATGTGTGCTTTTCGGTG	3556

QY 3479 TGTGCTCTGGGAAATATTTTCTTAGTGCTCCCATACCTGGGGTCAAGATTGATG 3538
Db 3557 TGTGCTCTGGGAAATATTTTCTTAGTGCTCCCATACCTGGGGTCAAGATTGATG 3616
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QY 3599 CAGAAATATGACAGACATGCTGACTGCTGAGCATGAGGAGCCCAACAGAGACCTCTGT 3658
Db 3677 CAGAAATATGACAGACATGCTGACTGCTGAGCATGAGGAGCCCAACAGAGACCTCTGT 3736
QY 3659 TTTGAGAGTTGTGAGAGCATTTGGGAAACCTTCGCAAGCAAAATGCGAGAGATGGCA 3718
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QY 3839 ATTATGACACAGACAGAGAAATCACTCATTTATCTTCAGAAACATGAGGAAAGCCGGC 3898
Db 3917 ATTATGACACAGACAGAGAAATCACTCATTTATCTTCAGAAACATGAGGAAAGCCGGC 3976
QY 3889 CAGTGAAGTGTAAAAATTTTGAAGATATCCCATTTGAGGAAACAGAAATGATATCC 3958
Db 3977 CAGTGAAGTGTAAAAATTTTGAAGATATCCCATTTGAGGAAACAGAAATGATATCC 4036
QY 3959 CAGATGACAGCAGACAGACAGTGGAGTGTCTTGCATCAGAAAGCTGAAAACCTGG 4018
Db 4037 CAGATGACAGCAGACAGACAGTGGAGTGTCTTGCATCAGAAAGCTGAAAACCTGG 4096
QY 4019 AAGAAGGAAACAAATTTATCTCATCTTTTGTGGAATGATGCCAGTAAAGCAAGGAGT 4078
Db 4097 AAGAAGGAAACAAATTTATCTCATCTTTTGTGGAATGATGCCAGTAAAGCAAGGAGT 4156
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QY 4199 CAGTTCAGCTGACTCAGGAGCAACACTGC-GCTCACCTCTGTTTAAATGAAATGTGTC 4257
Db 4277 CAGTTCAGCTGACTCAGGAGCAACACTGCAGCTCACCTCTGTTTAAATGAAATGTGTC 4336
QY 4258 CTGTGCTGGGCTCCGCCCCCAACTCTGTGAATCAGAGAGAGTGTCTTGAATTTTCA 4317
Db 4337 CTGTGCTGGGCTCCGCCCCCAACTCTGTGAATCAGAGAGAGTGTCTTGAATTTTCA 4396
QY 4318 AGTGTGTTCTTTCCACACCCGGAAGTACCACTTGAATTTTCAATTTTGAAGAGG 4377
Db 4397 AGTGTGTTCTTTCCACACCCGGAAGTACCACTTGAATTTTCAATTTTGAAGAGG 4456
QY 4378 ACCTCAGACTCAGAGAGCTGTCTCAGGGCATTTCCAGAGAGATGCCATGACCA 4437
Db 4457 ACCTCAGACTCAGAGAGCTGTCTCAGGGCATTTCCAGAGAGATGCCATGACCA 4516
QY 4438 GAATGTGTGACTTACTCTCTTTTCCATTCATTTAAAGTCTTATATATGTGCTGTC 4497
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QY 4498 TGTGCTCTACATCAGTTAAAGCAAAAGCTTTCAACAGTGGACCTGTCCCTCAG 4557
Db 4577 TGTGCTCTACATCAGTTAAAGCAAAAGCTTTCAACAGTGGACCTGTCCCTCAG 4636
QY 4558 AAGTGGCAACGCACTCTGTGAACCTGATCGAATGGGCAATGCTTTGTGTGAGGA 4617

Db 4637 AAGTGGCAACGCACTCTGTGAACCTGATCGAATGGGCAATGCTTTGTGTGAGGA 4696
QY 4618 TGGGTGAGATGTCCACAGGCGGAGTGTCTCACTTGAAGGCTTTGAGAGATGCG-GGC 4676
Db 4697 TGGGTGAGATGTCCACAGGCGGAGTGTCTCACTTGAAGGCTTTGAGAGATGCGGCGC 4756
QY 4677 TATGAGCCAGTGTAAATGTGAGATGTGACTGAGGAGAAAGAGCGCAAGTGTGTCG 4736
Db 4757 TATGAGCCAGTGTAAATGTGAGATGTGACTGAGGAGAAAGAGCGCAAGTGTGTCG 4816
QY 4737 GAGAGCGTGTGAGCTCTGAGATGATGCTGCTGCTGCTGAGAGTGTGCTGTCG 4796
Db 4817 GAGAGCGTGTGAGCTCTGAGATGATGCTGCTGCTGAGAGTGTGCTGTCG 4876
QY 4797 TGTGAGAAACGAAAGCGGCGGAGGTTGTTTGAAGGTTGCGTCTCTCA 4856
Db 4877 TGTGAGAAACGAAAGCGGCGGAGGTTGTTTGAAGGTTGCGTCTCTCA 4936
QY 4857 CAGTGGGTTACAGGCGAGTTCCTGTGAGCTTCTTAATGAGAGATTCCTTCG 4916
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Db 4997 GACTTTAAGTGTCTCTGCGCTGCGCCAGAGAAATGATGACGCTTCTCTTCTCT 5056
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Db 5417 AGAATTTAACTTAATAAATCAATGCTACGTTTTCGCGTGTGCTATGTT 5470

RESULT 5
US-07-813-593-3
; Sequence 3, Application US/07813593
; Patent No. 5185438
; GENERAL INFORMATION:
; APPLICANT: Lemischka, Ihor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; STREET: 180 VARICK STREET
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/813,593
FILING DATE: 19920415
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
NAME/KEY: mat_peptide
LOCATION: 208..4308
US-07-813-593-3

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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QY 61 GGTGAGCCAGGCGCGCGGTGCGCGCGCTCTCCCGGCTCTGGCGTGGCGGCGCC-ATA 119
DB 61 GGTGAGCCAGGCGCGCGGTGCGCGCGCTCTCCCGGCTCTGGCGTGGCGGCGCCGATA 119
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DB 120 CCGGCTCTGTGACTCTTTGGCGGCGCAGGAGACGAGAAAGAGTCTGTGCTGAGAAACCTG 179
QY 180 GGGCTGTGCGCAGGCGCGAGGTGAGATGAGAGCAAGGCGCTGCTAGTGTGCTCT 239
DB 180 GGGCTGTGCGCAGGCGCGAGGTGAGATGAGAGCAAGGCGCTGCTAGTGTGCTCT 239
QY 240 GTGTTCTGTGCGAGACCCGAGCCGCTCTGTGGGTTTGACTGGCGATTTTCTCCATCC 299
DB 240 GTGTTCTGTGCGAGACCCGAGCCGCTCTGTGGGTTTGACTGGCGATTTTCTCCATCC 299
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DB 300 CCCCAAGCTCAGACACAGAAAGACATCTAGCAATTTTGGCAATATCAACCTTCAAGT 359
QY 360 TACTTGCAGGGGAGACAGCGGAGCTTGAATGCTTGGCCCAATGCTCAGCGATTTCTGA 419
DB 360 TACTTGCAGGGGAGACAGCGGAGCTTGAATGCTTGGCCCAATGCTCAGCGATTTCTGA 419
QY 420 GGAAGGGTATTGTGACTGAATGCGGCGGTGTGACAGTATCTTCTGCAAAACCTCAC 479
DB 420 GGAAGGGTATTGTGACTGAATGCGGCGGTGTGACAGTATCTTCTGCAAAACCTCAC 479

DB 420 GGAAGGGTATTGTGACTGAATGCGGCGGTGTGACAGTATCTTCTGCAAAACCTCAC 479
QY 480 CATTCACAGGGTGTGGAATGATATCTGAGGCTTACAGTGTCTGACCGGAGCTCA 539
DB 480 CATTCACAGGGTGTGGAATGATATCTGAGGCTTACAGTGTCTGACCGGAGCTCA 539
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DB 720 ATTTGTTCCGATGGAACAGAAATTTCTGGGACAGCGAGATAGGCTTTACTCTCCCG 779
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DB 960 AACAGAGCTCAATGTGGGCTTGAATTTCACTGGCACTCTCCACTTCAAAGTCTCATCA 1019
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DB 1320 GCCCATGATGATCACTACCAATATGTTGGCATGAACCTCAATCATGGAAGTGC 1379
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QY 1440 GAGCCATAGTGTCTCTGTGTTGATGTCCACCCAGATCGGTGAGAAAGCTTGA 1499
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DB 1500 CTGCGCTATGATTTCTTCAACAGTATGGAACATGCAACATTTGACATGACAGTCTAC 1559

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Qy 1920 AGACAGAAATACGTTTGAAGAACCTGACGTTGTAACGCTTGCTCAAGCAACATCGGT 1979
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Qy 5279 AGCAGATTTGCAATTTACTTTTGAAGGATGATGATGATGATGATGATGATGATGATGATGAT 5338
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|||||
Qy 5339 AATTTTAACTTAAATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5390
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Db 5340 AATTTTAACTTAAATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5391
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RESULT 6
US-07-977-451-5
; Sequence 5, Application US/07977451
; Patent No. 5270458
; GENERAL INFORMATION:
; APPLICANT: Lemischke, Thor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESS: Imclone Systems Incorporated
; STREET: 180 Varick Street
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/977,451
; FILING DATE: 1992.11.9
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US UNASSIGNED
; FILING DATE: 12-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/906,397
; FILING DATE: 26-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US92/05401
; FILING DATE: 26-JUN-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEW-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
US-07-977-451-5

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0; Mismatches 12; Indels 3; Gaps 3;
Matches 5377; Conservative 0;

QY 1 CTGTGTCCCGAGCGGATTAACCTTGCTGACCCGATTCGCGGACACCGCTGACGCCGCG 60
DB 1 CTGTGTCCCGAGCGGATTAACCTTGCTGACCCGATTCGCGGACACCGCTGACGCCGCG 60
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DB 61 GCTGAGGACGAGGCGCGGTGCGCGCTCTCCCGGCTTTGGCGTCCGGGGGCGC-ATA 119
QY 120 CCGGCTCTGTGACTTCTTTGGGGGCGAGGACGAGGAGAGAGTCTGTGCTGAGAACTG 179
DB 120 CCGGCTCTGTGACTTCTTTGGGGGCGAGGACGAGGAGAGTCTGTGCTGAGAACTG 179
QY 180 GGCCTGTGTCCAGCGCGAGGTGCGAGATGAGAGACGAGCGCTGCTAGCTGTGCTCT 239
DB 180 GGCCTGTGTCCAGCGCGAGGTGCGAGATGAGAGACGAGCGCTGCTAGCTGTGCTCT 239
QY 240 GTGGTTCTGCGTGAAGACCCGAGCGCTCTGTGGGTTTGACTGGCGATTTTCTTCATCC 299
DB 240 GTGGTTCTGCGTGAAGACCCGAGCGCTCTGTGGGTTTGACTGGCGATTTTCTTCATCC 299
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DB 420 GGAAGGGTATTGGTGACTGAATCGCGGTGTGTGACAGTATCTTTGCAAAAACCTCAC 479
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DB 480 CATTCCAGGGTGTGGAATAATGATCTGAGACCTAACAGTGTCTGTACCGGGAGCTGCA 539
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DB 1080 GAGCACTTGAACAATGAAAGTGTGACCAAGAGTGAACCAAGGGAATACACTGTGTAGC 1139
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DB 1320 GCCCATTTGATCCAACTACCAATGATTTGTGGAGTGAATCACTCAATGAGAAAGTAC 1379
QY 1380 TGAAGAGATGACGAGAACTACAGGATCATCTCACCACCCCATTTCAATGAGAAACA 1439
DB 1380 TGAAGAGATGACGAGAACTACAGGATCATCTCACCACCCCATTTCAATGAGAAACA 1439

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 Db 4560 AGTGGCAACGGCACCTCTGTGAAACTGTGATGGAATGGCAATGCTTTGTGTGAGGAT 4619
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 Db 4680 TGAGCCAAGTGTAAAGTGGGATGTGACTGGGAGGAAGGAAGCGCAATCGCTGGGA 4739

Qy 4739 GAGCGTGTGAGACCTGAGATGATTTGTGCTGTGTGAGAGTGGCTTGTGGCTTG 4798
 Db 4740 GAGCGTGTGAGACCTGAGATGATTTGTGCTGTGTGAGAGTGGCTTGTGGCTTG 4799
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 Db 4800 TCAGAAAACGCAAAAGCGCGCGGAGGTTTGTGTTGAAAGTTTGTGCTCTTCA 4859
 Qy 4859 GTGGGTTACAGGAGTCCCTGTGGCTTTCTACTCTTAATGAGATTCCTTCCGA 4918
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 Qy 4919 CTCTTACGTGTCTCTGCGCTTGCGCCAGAGAAAGAAATGATGACGTTGCTCTTCA 4978
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 Db 5100 CCAGTGGCGGCTGTGAGAGTCTGAGAGGTTCTGTCAAGTGGCGGTAAAGCTCAG 5159
 Qy 5159 GCTGTGTCTTCTCTATCTCCACTCTGTGAGGCCCCCAAGTCTCAGTATTTAGCT 5218
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 Db 5220 TTTGCGCTTCTGATGCGAGAAATCTTAATTTGTTGTTTGTCTCCAGATATCACT 5279
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 Qy 5339 AATTTTAACTTATTAATCTATGTTCTGTTTCTGCTGTGTGCTTATGTT 5390
 Db 5340 AATTTTAACTTATTAATCTATGTTCTGTTTCTGCTGTGTGCTTATGTT 5391

RESULT 7
 US-07-946-507-3
 ; Sequence 3, Application US/07946507
 ; Patent No. 5283354
 ; GENERAL INFORMATION:
 ; APPLICANT: Lemischka, Ihor R.
 ; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
 ; TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: IMCLONE SYSTEMS INCORPORATED
 ; STREET: 180 VARICK STREET
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: U.S.A.
 ; ZIP: 10014
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; FILING DATE: 19920917
 ; CLASSIFICATION: 536
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/813,593

FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Feit, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 208..4308
US-07-946-507-3

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;

Best Local Similarity 99.7%; Pred. No. 0;

Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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RESULT 8
US-08-252-517-5
; Sequence 5, Application US/08252517
; Patent No. 5548065
; GENERAL INFORMATION:
; APPLICANT: Lemischka, Ihor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESSES:
; ADDRESS: Imclone Systems Incorporated
; STREET: 180 Varick Street
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/252,517
; FILING DATE: 31-OCT-1994
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/977,451
; FILING DATE: 19-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/906,397
; FILING DATE: 26-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US92/05401
; FILING DATE: 26-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: TW 81102961
; FILING DATE: 15-APR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US92/02750
; FILING DATE: 02-APR-1992
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Feit, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
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HYPOTHEICAL: NO
ANTI-SENSE: NO
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US-08-252-517-5

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;

Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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Db 1800 CAACAAAGCGGAGCGAGAGAGAGGATCTTCTTCATGTGATCAGGGGCTCTGAAT 1859
QY 1860 TACTGTGCAACCTGCTGCCACGCACTGAGCAGAGAGTGTCTCTGTGTGCACTGC 1919
| | | | |
Db 1860 TACTGTGCAACCTGCTGCCACGCACTGAGCAGAGAGTGTCTCTGTGTGCACTGC 1919
QY 1920 AGACAGAAATACGTTTGAGAACCTGCTGATACAAAGCTTGGCTCAGGCAACATCGGT 1979
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QY 1980 CCACATGGGCGAATCACTGACACAGTTTGAAGAACTTGATGCTCTTTGAAACTGA 2039
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Db 5340 AATTTTAACTTAAATTTACTTTTAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 5391

RESULT 9
US-07-906-397A-5
Sequence 5, Application US/07906397A
Patent No. 5621090
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: NOTIOPOTENT HEMANOPIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMCLONE SYSTEMS INCORPORATED
STREET: 180 VARICK STREET
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/906,397A
FILING DATE: 19920626
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-2054
TELEFAX: 212-645-1405
INFORMATION FOR SEQ. ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
NAME/KEY: mat_peptide
LOCATION: 208..4308
US-07-906-397A-5

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;

Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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DB 61 GCTGAGCCAGGAGCGCGGTCGCCGCTCTCCCGGATCTTGCGCTGCGGGGCGGANA 119
OY 120 CCGCTCTGTGACTCTTTTGGCGGACAGGAGAGAGAGAGTCTGTGCTTGAAGAACTG 179
DB 120 CCGCTCTGTGACTCTTTTGGCGGACAGGAGAGAGAGAGTCTGTGCTTGAAGAACTG 179
OY 120 CCGCTCTGTGACTCTTTTGGCGGACAGGAGAGAGAGAGTCTGTGCTTGAAGAACTG 179
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Db	1740	TGTAAAGTACGCTGTCATCCAAAGCTGCCAAGCTGTACGCTTTGTACAAATGTAAAGCCAT	1799
QY	1800	CAACAAACCGGGACGAGGAGAGAGGGGTATCTCCTTCATGTGATCAAGGGGCTCGGAAT	1859
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QY	1860	TACTGTGCAACCTGTGCCAGCCAACTGAGAGGAGTGTGTCCCTTGTGTGACATGC	1919
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QY	1920	AGACGAAATATGCTTTGAGAACTTACGTGTGTACAGCTTGGCTTACAGGCAACATCGGT	1979
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QY	1980	CCACATGGGGCGAATCACTCACACAGTTTGGCAAGACTTGGATGCTCTTGGAAACTGAA	2039
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QY	2220	GGAAGATCAGACAAACAACATTGGGAGAACATTAAGTACTGGCCCAAGCATCTGGAA	2279
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QY	2340	TGTACTGAGAGATGGGAAACCGAACCTGACTATCCGCAAGGTTAGGAAAGAGATGAGG	2399
Db	2340	TGTACTGAGAGATGGGAAACCGAACCTGACTATCCGCAAGGTTAGGAAAGAGATGAGG	2399
QY	2400	CCTCTACACCTGGCCAGGCGCTGCAATGTCTTGGCTGTGTGCAAGAGGCGATCTTCAT	2459
Db	2400	CCTCTACACCTGGCCAGGCGCTGCAATGTCTTGGCTGTGTGCAAGAGGCGATCTTCAT	2459
QY	2460	AATAGAGGTGCCAGGAAAGAACAACCTTGGAGTCAATTAATCTGTGGCACTGCAGT	2519
Db	2460	AATAGAGGTGCCAGGAAAGAACAACCTTGGAGTCAATTAATCTGTGGCACTGCAGT	2519
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QY	2640	GGAATGAGGCTGTGAAAGCTTGCTTATGATGCGCAAGTGGGAATTTCCCAAGGACCG	2699
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QY	2760	TTTTGAAATTGACAGACAGCGACTTGGCAAAACAGTAGCCGTCAGAGATGTTGAAGAGG	2819
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Db	2820	AGCAACACACACCGACGATCGAGCCCTCATCTTGAACTCAAAGTCTCTCATCTCACTTGG	28789
QY	2880	TCACCACTCAATGTGGAACTCTCAAGGGCGCTGACCCAAAGCGGGAGGGGCTCTCAT	29339
Db	2880	TCACCACTCAATGTGGAACTCTCAAGGGCGCTGACCCAAAGCGGGAGGGGCTCTCAT	29339
QY	2940	GGTAGTGTGGAATTCGCAAGTTTGGAAACTTATCACTTACTTACCGGGCAAGAA	29999
Db	2940	GGTAGTGTGGAATTCGCAAGTTTGGAAACTTATCACTTACTTACCGGGCAAGAA	29999
QY	3000	TGAATTTGTCCTCTATAAGCAAAAGGGGCAAGCTTCCGACGGGCAAGCACTACGTTGG	30559
Db	3000	TGAATTTGTCCTCTATAAGCAAAAGGGGCAAGCTTCCGACGGGCAAGCACTACGTTGG	30559
QY	3060	GGAGCTCTCCGTGATCTGAAAGAAGCGCTTGGACAGATCAACGACGCCAGAGCTCTGC	31139
Db	3060	GGAGCTCTCCGTGATCTGAAAGAAGCGCTTGGACAGATCAACGACGCCAGAGCTCTGC	31139
QY	3120	CAGCTCAGGCTTTTGTGAGAGAAATGGCTCAGTGAATGTAGAGAGAAAGAAAGCTTCTGA	31779
Db	3120	CAGCTCAGGCTTTTGTGAGAGAAATGGCTCAGTGAATGTAGAGAGAAAGAAAGCTTCTGA	31779
QY	3180	AGAACTGACAAAGACCTTCTGACCTTGGAGACCTCATCTGTTCACAGCTTCCAAAGTGGC	32339
Db	3180	AGAACTGACAAAGACCTTCTGACCTTGGAGACCTCATCTGTTCACAGCTTCCAAAGTGGC	32339
QY	3240	TAAAGGACGTGAGTTCTTGGCATCAGAAAGTATCCACAGGACCTGGCAGACGAA	32999
Db	3240	TAAAGGACGTGAGTTCTTGGCATCAGAAAGTATCCACAGGACCTGGCAGACGAA	32999
QY	3300	CATTCTCTCATCGGAGAAATGTGATGATGATCTGAGACTTGGGCTTGGCCGGGACAT	33599
Db	3300	CATTCTCTCATCGGAGAAATGTGATGATGATCTGAGACTTGGGCTTGGCCGGGACAT	33599
QY	3360	TTATTAAGACCCGGATTATGTCAAGAAAAGAGATGCCGACCTCCCTTTGAAGTGGATGGC	34139
Db	3360	TTATTAAGACCCGGATTATGTCAAGAAAAGAGATGCCGACCTCCCTTTGAAGTGGATGGC	34139
QY	3420	CCCGAAACCTTTTGTGACAGATATACAACTTCAAGAGCATGTGTGTCTTTCGGTGT	34779
Db	3420	CCCGAAACCTTTTGTGACAGATATACAACTTCAAGAGCATGTGTGTCTTTCGGTGT	34779
QY	3480	GTTGCTCTGGGAAATATTTTCTTAGAGTGCCTCCCAATACCTGGGGCTCAAGATTGATGA	35339
Db	3480	GTTGCTCTGGGAAATATTTTCTTAGAGTGCCTCCCAATACCTGGGGCTCAAGATTGATGA	35339
QY	3540	AGAAATTTGTGAGATTTGAAAGAGAACTAGAAATGGGGCTCTGACTACCTACCCC	35999
Db	3540	AGAAATTTGTGAGATTTGAAAGAGAACTAGAAATGGGGCTCTGACTACCTACCCC	35999
QY	3600	AGAAATGACCAAGCAATGTGCGACTGTGGCAAGAGAACCCCAACAGAACCTCGTT	36599
Db	3600	AGAAATGACCAAGCAATGTGCGACTGTGGCAAGAGAACCCCAACAGAACCTCGTT	36599
QY	3660	TTTCAGAGTTGTGAGCAATTTGGGAAACCTTCTTGCAAGCAAAATGCGACAGATGGCAA	37139
Db	3660	TTTCAGAGTTGTGAGCAATTTGGGAAACCTTCTTGCAAGCAAAATGCGACAGATGGCAA	37139
QY	3720	AGACTATATTTTCTTCCAAATGTCAAGACACTGAGCATGGAAGAGATTTCTGACTCTC	37779
Db	3720	AGACTATATTTTCTTCCAAATGTCAAGACACTGAGCATGGAAGAGATTTCTGACTCTC	37779
QY	3780	CCTGCGTACCTCACTGTTTCTGTATAGAGAGAGAGAAATGTGCGACCCCAATTCCA	38339
Db	3780	CCTGCGTACCTCACTGTTTCTGTATAGAGAGAGAGAAATGTGCGACCCCAATTCCA	38339
QY	3840	TTATGACAAACAGCAGGAATCACTCATTATCTCAAGACAGTAAGCAAGAGCGCGCC	38999
Db	3840	TTATGACAAACAGCAGGAATCACTCATTATCTCAAGACAGTAAGCAAGAGCGCGCC	38999

OY	3900	AGTAGGTGTAAAAACATTTGAAAGATATCCCATTTGGAGAACAGAAAGTAAAGATATCC	3959
Db	3900	AGTAGGTGTAAAAACATTTGAAAGATATCCCATTTGGAGAACAGAAAGTAAAGATATCC	3959
OY	3960	AGATGACAGCCAGACAGACAGTGGGATGGTCTTTCATCAGAAAGCTGAAACCTTGGA	4019
Db	3960	AGATGACAGCCAGACAGACAGTGGGATGGTCTTTCATCAGAAAGCTGAAACCTTGGA	4019
OY	4020	AGACAGGAACCAATTATCTCCATCTTTTGTGTGAATGATGCCAGTAAAGCAGGAGTCTC	4079
Db	4020	AGACAGGAACCAATTATCTCCATCTTTTGTGTGAATGATGCCAGTAAAGCAGGAGTCTC	4079
OY	4080	TGTGGCTTCGGAAAGGCTCCAAACAGACAGTGGCTAACAGTCTGGGTATCTACATGATGA	4139
Db	4080	TGTGGCTTCGGAAAGGCTCCAAACAGACAGTGGCTAACAGTCTGGGTATCTACATGATGA	4139
OY	4140	CACAGACACACACCTGTGTACTTCAGGAGCAGAGGACAGACCTTTTAAAGATGTGTGATCTGC	4199
Db	4140	CACAGACACACACCTGTGTACTTCAGGAGCAGAGGACAGACCTTTTAAAGATGTGTGATCTGC	4199
OY	4200	AGTTTCAAGCTGACTCAGGAGACCACTGC-GCTCACCTCTGTTTAAATGGAAGTGTCC	4258
Db	4200	AGTTTCAAGCTGACTCAGGAGACCACTGCAGCTCACTCTGTTTAAATGGAAGTGTCC	4259
OY	4259	TGTCCCGGCTCCGGCCCAACCTCCGTGGAATACAGAGAGAGTGTGCTTATGATTTTCAA	4318
Db	4260	TGTCCCGGCTCCGGCCCAACCTCCGTGGAATACAGAGAGAGTGTGCTTATGATTTTCAA	4319
OY	4319	GTGTGTGTTCTTTCCACACACCGGGAAGTAGCAATTTATTTTCAATTTTGTGAGAGAGGA	4378
Db	4320	GTGTGTGTTCTTTCCACACACCGGGAAGTAGCAATTTATTTTCAATTTTGTGAGAGAGGA	4379
OY	4379	CCTCAGACTGCAGAGAGGTTGTCTCAGGGCAATTTCCAGAGAGATGCCATGACCCAG	4438
Db	4380	CCTCAGACTGCAGAGAGGTTGTCTCAGGGCAATTTCCAGAGAGATGCCATGACCCAG	4439
OY	4439	AATGTGTGACTCTACTCTCTTTTTCATTTCAATTTAAAGTCCATATATATGTGCCCTGTCT	4498
Db	4440	AATGTGTGACTCTACTCTCTTTTTCATTTCAATTTAAAGTCCATATATATGTGCCCTGTCT	4499
OY	4499	GTGGTCTCACTACAGTTAAAGCAAAAACATTTCAACAGGTGGACTGTCTCCCAAGA	4558
Db	4500	GTGGTCTCACTACAGTTAAAGCAAAAACATTTCAACAGGTGGACTGTCTCCCAAGA	4559
OY	4559	AGTGGCAACGGCACTCTGTGAAACTGTAGTCGAATGGCAATGCTTGTGTGTGAGGAT	4618
Db	4560	AGTGGCAACGGCACTCTGTGAAACTGTAGTCGAATGGCAATGCTTGTGTGTGAGGAT	4619
OY	4619	GGGTGAGATGTCCAGGGCCGAGTGTCTTACCTTGGAGGCTTTGTGAGGATCCGCTA	4678
Db	4620	GGGTGAGATGTCCAGGGCCGAGTGTCTTACCTTGGAGGCTTTGTGAGGATCCGCTA	4679
OY	4679	TGAGCCAAAGTGTAAAGTGTGGGAATGTGACATGGAGAGAAAGGAAAGCCAAATCCCTCGGA	4738
Db	4680	TGAGCCAAAGTGTAAAGTGTGGGAATGTGACATGGAGAGAAAGGAAAGCCAAATCCCTCGGA	4739
OY	4739	GAGCGGTGTGAGCCTGACATGTATTTGTGTGCTGTGTGAGAGTGGGCTGTGTGACCTG	4798
Db	4740	GAGCGGTGTGAGCCTGACATGTATTTGTGTGCTGTGTGAGAGTGGGCTGTGTGACCTG	4799
OY	4799	TCAGGAAACGCAAAAGCCGCGCGGAGGTTTGTGTGGAAGTTTGCGTCTTTGACA	4858
Db	4800	TCAGGAAACGCAAAAGCCGCGCGGAGGTTTGTGTGGAAGTTTGCGTCTTTGACA	4859
OY	4859	GTCCGGGTAAAGCGGAGTTTCCCTGTGTGGGTTTCCATCTCTTAATGAGAGTCTTCCGGA	4918
Db	4860	GTCCGGGTAAAGCGGAGTTTCCCTGTGTGGGTTTCCATCTCTTAATGAGAGTCTTCCGGA	4919
OY	4919	CTCTTACCTGTCTCTCTGTGCTGTGGCCCAAGAGAAGAAATGATGACATTGCTCTTCTCA	4978
Db	4920	CTCTTACCTGTCTCTCTGTGCTGTGGCCCAAGAGAAGAAATGATGACATTGCTCTTCTCA	4979
OY	4979	TCTCTCAGGCTGTGTCTTAATTCAAGAACCAAAAAGAGGAAGTGTGGCAGAGCTCTT	5038

Db	4980	TTCTCTCAGGCTGTGCTTAACTTTCAGAACACCAAAAGAGGAAAGCTCGGACAGGCTTCT	5039
Qy	5039	GACGGGGCCGAAGAATTGTGAGAACAGAAACAGAACTCAGGGTTTCTGCTGGTGAAGAC	5098
Db	5040	GACGGGGCCGAAGAATTGTGAGAACAGAAACAGAACTCAGGGTTTCTGCTGGTGAAGAC	5099
Qy	5099	CCAGCTGGCGCCCTGTGTGGCAGGTCGTGAAGGTTCTCTGTCAATGGCGGTAAAGGCTCAG	5158
Db	5100	CCAGTGGCGCCCTGTGTGGCAGGTCGTGAAGGTTCTCTGTCAATGGCGGTAAAGGCTCAG	5159
Qy	5159	GCTGTTGTTCTTCCCTATCTCCACTCCTCGTCAGGCCCCCAAGTCCCTAGATTATTGCT	5218
Db	5160	GCTGTTGTTCTTCCCTATCTCCACTCCTGTGAGGCCCCCAAGTCCCTAGATTATTGCT	5219
Qy	5219	TTGTGGCTTCTCTGATGCGAGAAAATCTTAATTGGTTGGTTTGGCTTCCAGATAATCACT	5278
Db	5220	TTGTGGCTTCTCTGATGCGAGAAAATCTTAATTGGTTGGTTTGGCTTCCAGATAATCACT	5279
Qy	5279	AGCCAGATTTGAAATAATCTTTTATGCCGAGTTATGATAACATCTACTATCTCTTTAG	5338
Db	5280	AGCCAGATTTGAAATAATCTTTTATGCCGAGTTATGATAACATCTACTATCTCTTTAG	5339
Qy	5339	AATTTTAACCTATAAACTATGCTTACTGCTTTTCTGCTCTGTGCTTATGTT	5390
Db	5340	AATTTTAACCTATAAACTATGCTTACTGCTTTTCTGCTCTGTGCTTATGTT	5391

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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
US-08-601-891-5

Query Match 99.0%; Score 5336.8; DB 2; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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DB 1 CTGTGTCCTCCGACGCGGATTAACCTGGCTGACCCCGATTCGCGGACACCGCTGCAGCCGCG 60
QY 61 GCTGAGGACGAGGCGCGCGTGCCTCCCGCTCTCCCGCTCTTGGCGCTGCGGAGGCC-ATA 119
DB 61 GCTGAGGACGAGGCGCGCGTGCCTCCCGCTCTCCCGCTCTTGGCGCTGCGGAGGCCGATA 119
QY 120 CCGCTCTGTGATCTTCTTGGCGGCGCAGGAGCGAGAGAGTCTGTGCTCTGAGAACTG 179
DB 120 CCGCTCTGTGATCTTCTTGGCGGCGCAGGAGCGAGAGAGTCTGTGCTCTGAGAACTG 179
QY 180 GGCCTGTGCGGACGCGGAGGTGAGAGTGAAGAGGAGCGCTGAGCTGTGCTCT 239
DB 180 GGCCTGTGCGGACGCGGAGGTGAGAGTGAAGAGGAGCGCTGAGCTGTGCTCT 239
QY 240 GTGCTTCTGCGTGAAGACCGGACCGCTCTGTGGGTGTGACTGGCGATTTTCTCATCC 299
DB 240 GTGCTTCTGCGTGAAGACCGGACCGCTCTGTGGGTGTGACTGGCGATTTTCTCATCC 299
QY 300 CCCCAAGCTCAGACACAGAAAGACATCTGACATTTTGGCAATAATACAAACCTTCAGAT 359
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QY 360 TACTTGCAGGGGACAGGGGACCTGGAAGCTTGGCCCAATGTGCGCGGATTCGA 419
DB 360 TACTTGCAGGGGACAGGGGACCTGGAAGCTTGGCCCAATGTGCGCGGATTCGA 419
QY 420 GAAAAGGATTTGTGATCTGAATGCGGCGTGTGACAGTATCTTCTCAAAACCTCAC 479
DB 420 GAAAAGGATTTGTGATCTGAATGCGGCGTGTGACAGTATCTTCTCAAAACCTCAC 479
QY 480 CATTCACAGGCTGTGGAATGATATCTGAGCTTCAAGTGTCTGTACCGGAGAGTTCGA 539
DB 480 CATTCACAGGCTGTGGAATGATATCTGAGCTTCAAGTGTCTGTACCGGAGAGTTCGA 539

DB 480 CATTCACAGGCTGTGGAATGATATCTGAGCTTCAAGTGTCTGTACCGGAGAGTTCGA 539
QY 540 CATAGCCTCCACTGTGTTATGCTATGTTCGAGATTACAGATCACCATTCATCGCCTGT 599
DB 540 CATAGCCTCCACTGTGTTATGCTATGTTCGAGATTACAGATCACCATTCATCGCCTGT 599
QY 600 CAGTGACACAGCATGGCATCGTGTACATCACCGAGAACAGAACAACTGTGTGATCC 659
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QY 660 CTGCGGAGGCTGATTTTCAAACTCAATGTGTCTTGGCGCTGTGATCCAGAAAAG 719
DB 660 CTGCGGAGGCTGATTTTCAAACTCAATGTGTCTTGGCGCTGTGATCCAGAAAAG 719
QY 720 ATTGTTCCGATGGAACAGAAATTTCTGTGGACAGGAGATAGGCTTATCTCTCCAG 779
DB 720 ATTGTTCCGATGGAACAGAAATTTCTGTGGACAGGAGATAGGCTTATCTCTCCAG 779
QY 780 TTACATGATCAGCTATGCGGACATGATCTTCTGTAGGCAAAAGTCAATGATGAACCTA 839
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QY 840 TCAGCTTATCATGTACATAGTGTGTGTTAGATATAGATTTATGATGATTTCTGAG 899
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QY 960 AACAGACTCAATGTGGGGCTTGATTTCACTGGCACTTCACCTTCAAAAGTTCATCA 1019
DB 960 AACAGACTCAATGTGGGGCTTGATTTCACTGGCACTTCACCTTCAAAAGTTCATCA 1019
QY 1020 TAAAGATTTGTAACCGGAGATGGAACCTTCTCTGGGACCTGTGGAGAGATTTT 1079
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QY 1380 TGAAGAAGATGACAGAAATCAACAGGTGATCTTCAACCAACCCCATTTCAATGAGAAACA 1439
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QY 1440 GAGCCATGAGTCTCTGTGTTGATATGTCACCCACAGATCGGTGAGAAAGCCTTGAT 1499
DB 1440 GAGCCATGAGTCTCTGTGTTGATATGTCACCCACAGATCGGTGAGAAAGCCTTGAT 1499
QY 1500 CTGCTATGATTTCTTACCAAGTATGAGACCATGACATTTGACATGACAGTCTACGC 1559
DB 1500 CTGCTATGATTTCTTACCAAGTATGAGACCATGACATTTGACATGACAGTCTACGC 1559
QY 1560 CAACCTTCCCTGACACATCCAGTGTACTGGCAGCTAGAGAGAGCTCTCTACAG 1619
DB 1560 CAACCTTCCCTGACACATCCAGTGTACTGGCAGCTAGAGAGAGCTCTCTACAG 1619

QY 1620 ACCCGCCAAACAAAGCCCGTATGCTTGTAAAGATGAGACACGTGAGGATTTCCAGGG 1679
DB 1620 ACCCGCCAAACAAAGCCCGTATGCTTGTAAAGATGAGACACGTGAGGATTTCCAGGG 1679
QY 1680 GGGAAACAAAGATGAGAGTCAACCAAAACCAATATGCCCTTGATTGAAGAAAAACAAAC 1739
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QY 1740 TGTAACTAGCGCTGGTATCCAAAGCTGCCAAAGCTGACAGCTTGTAACTATGTAAACCAT 1799
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QY 1800 CAACAAGGGGAGCGAGAGAGAGGATCTCTCTTCAATGTATCAGGGGCTCTGAAAT 1859
DB 1800 CAACAAGGGGAGCGAGAGAGAGGATCTCTCTTCAATGTATCAGGGGCTCTGAAAT 1859
QY 1860 TACTGTGCAACCTGCTGCCAGCCAACTGACAGAGAGTGTCTCTGTGTGTGCACTGC 1919
DB 1860 TACTGTGCAACCTGCTGCCAGCCAACTGACAGAGAGTGTCTCTGTGTGTGCACTGC 1919
QY 1920 AAGACAAATACGTTTGAGAACCTCAAGTGTATCAAGCTTGGTCAAGGCAACATCGGT 1979
DB 1920 AAGACAAATACGTTTGAGAACCTCAAGTGTATCAAGCTTGGTCAAGGCAACATCGGT 1979
QY 1980 CCACATGGGCGAATCACTCAACACAGTTTGCAAGAACTTGSATGCTCTTTGAGAACTGAA 2039
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DB 2100 TCTGACAGACCAAGGGAGCTATGTTGTCTCTGCTCAAGATTAAGAAACCAAGAAAGACA 2159
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DB 3660 TTCAAGAGTTGTGAGCAATTTGGGAAACCTCTGCAAGCAATGCGACAGAGATGGCA 3719
QY 3720 AGACTATATTTGTTCTTCAATGTCAAGACACTGAGCATGAAAGGATTTCTGACTCTC 3779
DB 3720 AGACTATATTTGTTCTTCAATGTCAAGACACTGAGCATGAAAGGATTTCTGACTCTC 3779
QY 3780 CCTGCTACCTCACTGCTTCTGTATGAGAGAAAGGAAAGTGTGCAACCCAAATTTCA 3839

Db	3780	CCTGCTACCTCACTGTTTCTCTGTATGAGAGAAAGAGAGTGTGCCACCCCAATTTC	3839
Qy	3840	TTATGACAACACAGCAGAAATCAGTCATTATCTCAGAACAGTAAGCAAAAGCCGCGC	3899
Db	3840	TTATGACAACACAGCAGAAATCAGTCATTATCTCAGAACAGTAAGCAAAAGCCGCGC	3899
Qy	3900	AGTGAGTAAAAACATTGAAAGATATCCCAATTGGAGAACCAAGAAATAAAGTATCC	3959
Db	3900	AGTGAGTAAAAACATTGAAAGATATCCCAATTGGAGAACCAAGAAATAAAGTATCC	3959
Qy	3960	AGATGACAGCCAGACAGACAGTGGGATGTCCTTGCAACAGAAAGCTGAAAACCTTGGA	4019
Db	3960	AGATGACAGCCAGACAGACAGTGGGATGTCCTTGCAACAGAAAGCTGAAAACCTTGGA	4019
Qy	4020	AGACAGAACAAAATTAATCTCAATCTTTTGTGGAATGATGCCAGTAAGCAGGGAGTC	4079
Db	4020	AGACAGAACAAAATTAATCTCAATCTTTTGTGGAATGATGCCAGTAAGCAGGGAGTC	4079
Qy	4080	TGTGGCCCTCGGAAGGCTCCAAACAGATGTGCTAACAGTCTGGGTATCACTCAGATGA	4139
Db	4080	TGTGGCCCTCGGAAGGCTCCAAACAGATGTGCTAACAGTCTGGGTATCACTCAGATGA	4139
Qy	4140	CACAGACACACACCGGTACTCCAGGAGCAGAGCAGAGACTTTTAAAGATGTGAGATGCTGC	4199
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 RESULT 11 US-09-021-324-5 Sequence 5, Application US/09021324 Patent No. 5912133 GENERAL INFORMATION: APPLICANT: Lemischka, Ihor R. TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS NUMBER OF SEQUENCES: 10 CORRESPONDENCE ADDRESS: ADDRESSEE: Imclone Systems Incorporated STREET: 180 Varlick Street CITY: New York STATE: New York COUNTRY: U.S.A. ZIP: 10014 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patent In Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/021,324 FILING DATE: CLASSIFICATION: PRIOR APPLICATION DATA: APPLICATION NUMBER: US/07/977,451 FILING DATE: 1992-11-19 PRIOR APPLICATION DATA: APPLICATION NUMBER: US 07/906,397 FILING DATE: 26-JUN-1992 PRIOR APPLICATION DATA: APPLICATION NUMBER: US PCT/US92/05401 FILING DATE: 26-JUN-1992 PRIOR APPLICATION DATA: APPLICATION NUMBER: TW 81102961 FILING DATE: 15-APR-1992 PRIOR APPLICATION DATA:						

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/ APPLICATION NUMBER: US 07/793,065
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/ APPLICATION NUMBER: US 07/679,666
/ FILING DATE: 02-APR-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Felt, Irving N.
/ REGISTRATION NUMBER: 28,601
/ REFERENCE/DOCKET NUMBER: LEM-3-7P
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 212-645-1405
/ TELEFAX: 212-645-2054
/ INFORMATION FOR SEQ ID NO: 5:
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Query Match      99.0%; Score 5316.8; DB 2; Length 5406;
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; Sequence 5, Application US/09872136B
; Patent No. 6677434
; GENERAL INFORMATION:
; APPLICANT: Lemischka, Ihor R.
; TITLE OF INVENTION: SOLUBLE HUMAN FLK-2 PROTEIN
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenyon & Kenyon
; STREET: One Broadway
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/872,136B
; FILING DATE: 01-Jun-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/208,786
; FILING DATE: 10-DEC-1998
; APPLICATION NUMBER: US 09/021,324
; FILING DATE: 10-FEB-1998
; APPLICATION NUMBER: US 08/601,891
; FILING DATE: 15-FEB-1996
; APPLICATION NUMBER: US 08/252,498

FILING DATE: 31-OCT-1994
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 APPLICATION NUMBER: US 07/975,049
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 FILING DATE: 26-JUN-1992
 APPLICATION NUMBER: 07/813,593
 FILING DATE: 24-DEC-1991
 APPLICATION NUMBER: 07/793,065
 FILING DATE: 15-NOV-1991
 APPLICATION NUMBER: 07/728,913
 FILING DATE: 28-JUN-1991
 APPLICATION NUMBER: 07/679,666
 FILING DATE: 02-APR-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Mieczkowski, Elizabeth M.
 REGISTRATION NUMBER: 42,226
 REFERENCE/DOCKET NUMBER: 11245/46115
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-425-7200
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 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5406 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FRAGMENT TYPE: N-terminal
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 208..4311
 FEATURE:
 NAME/KEY: mat_peptide
 LOCATION: 265..4308
 FEATURE:
 NAME/KEY: sig_peptide
 LOCATION: 208..264
 SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Query Match	Similarity	Score	DB	Length		
99.0%	99.7%	536.8	3	5406		
Beet Local						
Matches 5377	Conservative	0	Indels 12	Gaps 3		
Db						
1	CTGTGTC	CCCGAGCCG	GATTAAC	CTTGCTGAC	CCCGGATTTCCGCGGACACCGCTGCAGCCCG	60
1	CTGTGT	CCCCGACCC	GATTAAC	TGCTGAC	CCCCGATTTCCGCGGACACCCGCTGCAGCCCG	60
Qy	61	GCTGGAGC	CAGGGCGCG	CCGCGTCCCGGCTCTTCCCGGCTTTCGCTGCGGGAGCC	-ATA	119
Db	61	GCTGGAGC	CAGGGCGCG	CCGCGTCCCGGCTCTTCCCGGCTTTCGCTGCGGGAGCC	-ATA	119
Qy	120	CCGCTCT	CTGTGACTTCTTTGCGGGCC	CAGGACGAGAAAGAGATCTGTGCTGAGAAACTG		179
Db	120	CCGCTCT	CTGTGACTTCTTTGCGGGCC	CAGGACGAGAAAGAGATCTGTGCTGAGAAACTG		179
Qy	180	GAGCTGTG	CCAGGCGCGAGGTG	AGATGGAGACAAAGCGCTGTAGCTGTGACTT		239
Db	180	GAGCTGTG	CCAGGCGCGAGGTG	AGATGGAGACAAAGCGCTGTAGCTGTGACTT		239
Qy	240	GTGGTTCT	GCGTGAAGACCCCGAGCCGCTCTGTGTGGTTTGA	CTGGCGATTTTCTTCATCC		299
Db	240	GTGGTTCT	GCGTGAAGACCCCGAGCCGCTCTGTGTGGTTTGA	CTGGCGATTTTCTTCATCC		299
Qy	300	CCCCAAGCT	CAGACACAGAAAGACAT	ACTGACAAATTTTGGCAATACACCTTCAGAT		359
Db	300	CCCCAAGCT	CAGACACAGAAAGACAT	ACTGACAAATTTTGGCAATACACCTTCAGAT		359

QY	360	TACTTGCAGGGGACACAGCCGGACCTTGGACTCTGGTCTTGGCCCAATGCTCAGCGGTATCTGA	413
Db	360	TACTTGCAGGGGACACAGCCGGACCTTGGACTCTGGTCTTGGCCCAATGCTCAGCGGTATCTGA	419
QY	420	GGAAAGGGTATTTGGTGACTGAATGCGGCGGTGGTGAACAGTATCTTCTCGAAAACACTCAC	479
Db	420	GGAAAGGGTATTTGGTGACTGAATGCGGCGGTGGTGAACAGTATCTTCTCGAAAACACTCAC	479
QY	480	CATTCCCAAGGGTGGTGGAAATGATTACTGGAGCCTTACAAGTGTCTGTAACCGGGAGCTCGA	539
Db	480	CATTCCCAAGGGTGGTGGAAATGATTACTGGAGCCTTACAAGTGTCTGTAACCGGGAGCTCGA	539
QY	540	CATAGCCCTCACCTGTTTATGCTATGTTAGTTCGAGATTAACGATACCATCTCATGCGCCCTGTG	599
Db	540	CATAGCCCTCACCTGTTTATGCTATGTTAGTTCGAGATTAACGATACCATCTCATGCGCCCTGTG	599
QY	600	CAGTGACCAAGCATGGCATCTGTATCATCAACCGAGAACAAAGACAAATCTGTGGTATGCC	659
Db	600	CAGTGACCAAGCATGGCATCTGTATCATCAACCGAGAACAAAGACAAATCTGTGGTATGCC	659
QY	660	CTGCCGAGGGTTCGATTTTCAAACCTCAATGTGCTCTTTGGCTAGGTATCCGAAAAAGAG	719
Db	660	CTGCCGAGGGTTCGATTTTCAAACCTCAATGTGCTCTTTGGCTAGGTATCCGAAAAAGAG	719
QY	720	ATTGTGTCGGATGGAGAAACAGAAATTTCTCGGGACACGAGATAGGCTTTACTCTCCCCAG	779
Db	720	ATTGTGTCGGATGGAGAAACAGAAATTTCTCGGGACACGAGATAGGCTTTACTCTCCCCAG	779
QY	780	TTACATGATCAGCTATGCGCGGACGTGCTTCTGTGAGGCAAAAGATCAATGATGAAACCTA	839
Db	780	TTACATGATCAGCTATGCGCGGACGTGCTTCTGTGAGGCAAAAGATCAATGATGAAACCTA	839
QY	840	TCAGTCCTATCATGTATAGTGTGTGTGATAGATATAGGATTTATGATGTGATTTCTGAG	899
Db	840	TCAGTCCTATCATGTATAGTGTGTGTGATAGATATAGGATTTATGATGTGATTTCTGAG	899
QY	900	CCCCCGCATGAATTTGAGCTATCTGCGGAGAAAACTTGTCTTAAATTTGTAACAGCGAG	959
Db	900	CCCCCGCATGAATTTGAGCTATCTGCGGAGAAAACTTGTCTTAAATTTGTAACAGCGAG	959
QY	960	AAACAGCTCAATGTGGGGCTTGAATTTACACCTGGGACCTCCACCTTCAAAGTCTATCA	101
Db	960	AAACAGCTCAATGTGGGGCTTGAATTTACACCTGGGACCTCCACCTTCAAAGTCTATCA	101
QY	1020	TAAGAAAGTTGTAAACCCGGGATGTGAAACCCTTTCCTGGGACTGTGGCGAAGATGTTTT	107
Db	1020	TAAGAAAGTTGTAAACCCGGGATGTGAAACCCTTTCCTGGGACTGTGGCGAAGATGTTTT	107
QY	1080	GAGCACCTTGACATAGAAAGTGTGACCAAGAGTGAACCAAGGGGAATTACACTGTGTAGC	113
Db	1080	GAGCACCTTGACATAGAAAGTGTGACCAAGAGTGAACCAAGGGGAATTACACTGTGTAGC	113
QY	1140	GTCCAGTGGACGGATGATCAAGAGAAATAGAACTTTGTCCGAGTTCAACACAAAGCCTTT	119
Db	1140	GTCCAGTGGACGGATGATCAAGAGAAATAGAACTTTGTCCGAGTTCAACACAAAGCCTTT	119
QY	1200	TATTCCTTTCCGTAGTGGAGTGAATCTTGTGTGGAAGCACAGTGGGCAGTCAAGTCCG	125
Db	1200	TATTCCTTTCCGTAGTGGAGTGAATCTTGTGTGGAAGCACAGTGGGCAGTCAAGTCCG	125
QY	1260	AATCCCTGTGAAGTATCTCAGTACCCCAAGCTCTCTATTAACAATGGTATACAGAAATGGAAG	131
Db	1260	AATCCCTGTGAAGTATCTCAGTACCCCAAGCTCTCTATTAACAATGGTATACAGAAATGGAAG	131
QY	1320	GCCCAATTGATTCACATACACATATGTTGGCATGTAACATCCATCATGGAATGAGAC	137
Db	1320	GCCCAATTGATTCACATACACATATGTTGGCATGTAACATCCATCATGGAATGAGAC	137
QY	1380	TGAAAGAGATGACGAAACCTACACGGTCACTCTACCAAACCCCATTTCAATGAGAAACA	143
Db	1380	TGAAAGAGATGACGAAACCTACACGGTCACTCTACCAAACCCCATTTCAATGAGAAACA	143

QY	1440	GAAGCACAATGGCTCTCTCGTGGTTGGAATGTCCACCCCAAGATTCGGTGAAGAAAGCTTGAT	1439
Db	1440	GAGCCACAATGGCTCTCTCGTGGTTGGAATGTCCACCCCAAGATTCGGTGAAGAAAGCTTGAT	1439
QY	1500	CTCGGCTATGGATTCTCTACAGATATGGGACCATGACGATTCGACATGCAAGCTACGC	1559
Db	1500	CTCGGCTATGGATTCTCTACAGATATGGGACCATGACGATTCGACATGCAAGCTACGC	1559
QY	1560	CAACCTTCCCCTGCACCAATCTCACTGGTACTGGCAGGTAGAGAAAGCTGCTCTACAG	1619
Db	1560	CAACCTTCCCCTGCACCAATCTCACTGGTACTGGCAGGTAGAGAAAGCTGCTCTACAG	1619
QY	1620	AACCGGGCAAAACAACCCCGTATGCTGTGTAAGAAATGAGACACGTGGAGGATTTCCAGG	1679
Db	1620	AACCGGGCAAAACAACCCCGTATGCTGTGTAAGAAATGAGACACGTGGAGGATTTCCAGG	1679
QY	1680	GGGAAACAAGATCGAAGTCACCCAAATAATATCCCTGATTGAGGAAAAAACAAC	1739
Db	1680	GGGAAACAAGATCGAAGTCACCCAAATAATATCCCTGATTGAGGAAAAAACAAC	1739
QY	1740	TGTAAGTACGCTGTCATCCAAGCTGCCAAGTGCACGCTTGTAACAATGTGAAAGCAT	1799
Db	1740	TGTAAGTACGCTGTCATCCAAGCTGCCAAGTGCACGCTTGTAACAATGTGAAAGCAT	1799
QY	1800	CAACAAAGCGGAGCGAGAGAGAGGGGTATCTCTTCCATGTGATCAGGGGTCTGTAAT	1859
Db	1800	CAACAAAGCGGAGCGAGAGAGAGGGGTATCTCTTCCATGTGATCAGGGGTCTGTAAT	1859
QY	1860	TACTGTGCACCTGTGCGCCAGCCCAATCGACAGGAGAGTGTGATCCCTGTTGTGCACTGC	1919
Db	1860	TACTGTGCACCTGTGCGCCAGCCCAATCGACAGGAGAGTGTGATCCCTGTTGTGCACTGC	1919
QY	1920	AGACAGAAATACGTTTGAAACCTCACGCTGGTACAAGCTTGCGTCACAGGCAACATCGT	1979
Db	1920	AGACAGAAATACGTTTGAAACCTCACGCTGGTACAAGCTTGCGTCACAGGCAACATCGT	1979
QY	1980	CCACATGGGGCAATATCATCTCACACCACTTTGCAAGAACTTGGATGCTTTGGAAACTGAA	2039
Db	1980	CCACATGGGGCAATATCATCTCACACCACTTTGCAAGAACTTGGATGCTTTGGAAACTGAA	2039
QY	2040	TGGCACCACGTGTTCTTAACAGACCAAAATGACATCTGATTGTGGCACTTTCAGATGTGCTC	2099
Db	2040	TGGCACCACGTGTTCTTAACAGACCAAAATGACATCTGATTGTGGCACTTTCAGATGTGCTC	2099
QY	2100	TCTGCAGGACCAAGGCGACTATGTTTGTGCTCGCTCAAGATATGAAAGACCAAGAAAGACA	2159
Db	2100	TCTGCAGGACCAAGGCGACTATGTTTGTGCTCGCTCAAGATATGAAAGACCAAGAAAGACA	2159
QY	2160	TTGCGCTGGTCAACAGCTCATCATCTTAAGACGATGGCACCCATGATCAACCGGAAATCT	2219
Db	2160	TTGCGCTGGTCAACAGCTCATCATCTTAAGACGATGGCACCCATGATCAACCGGAAATCT	2219
QY	2220	GGAAATTCAGACAACAACCAATTTGGCGAGACCAATTGAAGTGACTTGGCCAGACTTGGAAA	2279
Db	2220	GGAAATTCAGACAACAACCAATTTGGCGAGACCAATTGAAGTGACTTGGCCAGACTTGGAAA	2279
QY	2280	TCTTAACCCCAACATTAATGATGTTCAAGAGCAACGAGACCCCTGGTAGAAGATTCAAGCAT	2339
Db	2280	TCTTAACCCCAACATTAATGATGTTCAAGAGCAACGAGACCCCTGGTAGAAGATTCAAGCAT	2339
QY	2340	TGTACTAGAGATGGGAAACCGGAACTGTACTATCCGACGGGTGAGGAAGGATGAGG	2399
Db	2340	TGTACTAGAGATGGGAAACCGGAACTGTACTATCCGACGGGTGAGGAAGGATGAGG	2399
QY	2400	CCTCTAACCTGCGACAGGCTTGCAATGTCTTGTGCTGTGCAAGAGCGGAGACGCTTTGAT	2459
Db	2400	CCTCTAACCTGCGACAGGCTTGCAATGTCTTGTGCTGTGCAAGAGCGGAGACGCTTTGAT	2459
QY	2460	AATAGAAAGTGTCCACGAGAAAAGACCAACTTGGAGTCAATTATCCTCGTCGGCACTGCAGT	2519
Db	2460	AATAGAAAGTGTCCACGAGAAAAGACCAACTTGGAGTCAATTATCCTCGTCGGCACTGCAGT	2519
QY	2520	GATTGCCATGTTCTTGGCTCTTCTTGTGCTATGTCACGACCGGTAAAGCGGGCA	2579

Db	2520	GAATGCGCATGTTCTTCTGAGCTCTCTTGTCAATCTCGTAGGAGCCGTTAAGCGGGCCAA	2579
OY	2580	TGAAGGGGAACTGAAGACAGGGCTACTTGCTATTTGCATNGATCCAGATGAAATGGCCCTT	2639
Db	2580	TGAAAGGGAACCTGAAGACAGGGCTACTTGTCTATTTGTCAATGATCCAGATGAAATGGCCCTT	2639
OY	2640	GGATGAGCGCTGTGAACCGCTTGCTTATGATGCCAGCAAGTGGGAATTTCCCAAGGACCG	2699
Db	2640	GGATGAGCGCTGTGAACCGCTTGCTTATGATGCCAGCAAGTGGGAATTTCCCAAGGACCG	2699
OY	2700	GCTGAACTAGGAAAACTCTTGGCCGGGCGCTTCCGCCAAGTAAATGAGGACAGCGC	2759
Db	2700	GCTGAACTAGGAAAACTCTTGGCCGGGCGCTTCCGCCAAGTAAATGAGGACAGCGC	2759
OY	2760	TTTTGGAATTTGCAAGACAGGCACTTGCAAAAACGTATGCGGTCAAGATGTTGAAGAAG	2819
Db	2760	TTTTGGAATTTGCAAGACAGGCACTTGCAAAAACGTATGCGGTCAAGATGTTGAAGAAG	2819
OY	2820	AGCAACACACAGCGAGCATGCGCCCTCATGTCTGAATCTCAAGATCCTCATCCACATTTG	2879
Db	2820	AGCAACACACAGCGAGCATGCGCCCTCATGTCTGAATCTCAAGATCCTCATCCACATTTG	2879
OY	2880	TCACCATCTCAATGTGTGAACCTCTAGCGGCTGCACCAAGCCGGAGGGGCTCTCAT	2939
Db	2880	TCACCATCTCAATGTGTGAACCTCTAGCGGCTGCACCAAGCCGGAGGGGCTCTCAT	2939
OY	2940	GGTGATGTGGAAATCTGCAAGTTTGGAAACCTTATCAACTTAATCGGGGCAAGAGAA	2999
Db	2940	GGTGATGTGGAAATCTGCAAGTTTGGAAACCTTATCAACTTAATCGGGGCAAGAGAA	2999
OY	3000	TGAATTTGTTCCCTATAAGACAAAGGGGACGCTTCCGCCAGGGCAAGACTACGTGG	3059
Db	3000	TGAATTTGTTCCCTATAAGACAAAGGGGACGCTTCCGCCAGGGCAAGACTACGTGG	3059
OY	3060	GGAAGTCTCCGTGATCTGAAAAGACGTTGGACAGCATCAACAGACCCAGAGCTCTGC	3119
Db	3060	GGAAGTCTCCGTGATCTGAAAAGACGTTGGACAGCATCAACAGAGCCAGAGCTCTGC	3119
OY	3120	CAGCTCAGGCTTTGTGAGGAGAAATGCGTAGATGTAGAGAAAGAAAGCTTCTGA	3179
Db	3120	CAGCTCAGGCTTTGTGAGGAGAAATGCGTAGATGTAGAGAAAGAAAGCTTCTGA	3179
OY	3180	AGAACTGTACAGGACTCTGACCTTGAGACATCTCATCTGTTACAGCTTCCAAGTGGC	3239
Db	3180	AGAACTGTACAGGACTCTGACCTTGAGACATCTCATCTGTTACAGCTTCCAAGTGGC	3239
OY	3240	TAAAGGACATGAGTTCTTGGCATCAAGGAATGTATCCACAGGGACCTGGCAGACGAA	3299
Db	3240	TAAAGGACATGAGTTCTTGGCATCAAGGAATGTATCCACAGGGACCTGGCAGACGAA	3299
OY	3300	CATTCTCTTATCGGAGGAAGATGTGTGAATCTGTGACTTGGGCTTGGCCGGGACAT	3359
Db	3300	CATTCTCTTATCGGAGGAAGATGTGTGAATCTGTGACTTGGGCTTGGCCGGGACAT	3359
OY	3360	TTATTAAGACCCCGGATTATGTCAAAAAAGAGATGCCGACTCCCTTTGAAGTGAATGGC	3419
Db	3360	TTATTAAGACCCCGGATTATGTCAAAAAAGAGATGCCGACTCCCTTTGAAGTGAATGGC	3419
OY	3420	CCCGGAAACATTTTTTGAACAGATATACAAATTCAGAGCGATGTGTGTCTTGGTGT	3479
Db	3420	CCCGGAAACATTTTTTGAACAGATATACAAATTCAGAGCGATGTGTGTCTTGGTGT	3479
OY	3480	GTTGCTCTGGGAAATATTTTCTTAAAGTGTCTCCCAATCCCTGGGGTCAAGATTTGATGA	3539
Db	3480	GTTGCTCTGGGAAATATTTTCTTAAAGTGTCTCCCAATCCCTGGGGTCAAGATTTGATGA	3539
OY	3540	AGAAATTTGTAGAGATTGAAGAAAGAACTAGAAATCGGGGCTCTGAACATACATACCCC	3599
Db	3540	AGAAATTTGTAGAGATTGAAGAAAGAACTAGAAATCGGGGCTCTGAACATACATACCCC	3599
OY	3600	AGAAATGTACCAACATGTCTGAATCTGTGCAATGAGAACCCCAACAGAACCTTCTGTT	3659
Db	3600	AGAAATGTACCAACATGTCTGAATCTGTGCAATGAGAACCCCAACAGAACCTTCTGTT	3659

D	b	3600	AGAAATGTAACAGAACCATGCTGGACTGCTGGGATATGAGAACCCCAACAGAGAACCTCGTT	3659
Q	y	3660	TTCCAGAGTTGGTGGAGCATTTGGGAAACCTCTCGACGAAATGCGCAGCGAGATGGCAA	3719
D	b	3660	TTCCAGAGTTGGTGGAGCATTTGGGAAACCTCTCGACGAAATGCGCAGCGAGATGGCAA	3719
Q	y	3720	AGACTATATGTGTTCTTCCAAATGTCAGAGACACTGAGCATGGAAAGGATTCCTGGACTCTC	3779
D	b	3720	AGACTATATGTGTTCTTCCAAATGTCAGAGACACTGAGCATGGAAAGGATTCCTGGACTCTC	3779
Q	y	3780	CCTGCGCTACCTCACTGTTTCTCTGATGAGAGAAAGGAGTGTGCGACCCCAATTCCA	3839
D	b	3780	CCTGCGCTACCTCACTGTTTCTCTGATGAGAGAAAGGAGTGTGCGACCCCAATTCCA	3839
Q	y	3840	TTATATACAACACAGCAGGAAATCATATTAATCTCCAGAACAGTAAAGCGAAAGCGCGC	3899
D	b	3840	TTATATACAACACAGCAGGAAATCATATTAATCTCCAGAACAGTAAAGCGAAAGCGCGC	3899
Q	y	3900	AGTAGCTGTAAAAACATTGGAAGATATCCATTTGGAGAACCAAGAAATGAATGATCC	3959
D	b	3900	AGTAGCTGTAAAAACATTGGAAGATATCCATTTGGAGAACCAAGAAATGAATGATCC	3959
Q	y	3960	AGATGACAGCCAGACAGACAAGTGGGATGATCTTGTGCATCAGAAAGCTGAAACCTTGG	4019
D	b	3960	AGATGACAGCCAGACAGACAAGTGGGATGATCTTGTGCATCAGAAAGCTGAAACCTTGG	4019
Q	y	4020	AGACGAGAACAAATTAATCTCCATCTTTTGTGGAAATGATGCTCCAGTAAACAGGGAGTC	4079
D	b	4020	AGACGAGAACAAATTAATCTCCATCTTTTGTGGAAATGATGCTCCAGTAAACAGGGAGTC	4079
Q	y	4080	TGTGGCCCTCGGAAGGCTCCAAACCAAGTGGCTACCAAGTCTGGGTATCACTCAGATGA	4139
D	b	4080	TGTGGCCCTCGGAAGGCTCCAAACCAAGTGGCTACCAAGTCTGGGTATCACTCAGATGA	4139
Q	y	4140	CACAGACACACCCGTACTCCAGGAGCAAGGACAGACCTTTTAAAGATGGTGGATGCTGC	4199
D	b	4140	CACAGACACACCCGTACTCCAGGAGCAAGGACAGACCTTTTAAAGATGGTGGATGCTGC	4199
Q	y	4200	AGTTCAAGCTGACTCAGGAGACCACTGC - GCTCACTCTGTGTTAAATGGAAGTGTCC	4258
D	b	4200	AGTTCAAGCTGACTCAGGAGACCACTGCACTGATCACTCTGTGTTAAATGGAAGTGTCC	4259
Q	y	4259	TGTCCCCGGCTCCGCCCCCACTCTCTGGAAATCAAGAGAGTGTCTGTAGATTTTCAA	4318
D	b	4260	TGTCCCCGGCTCCGCCCCCACTCTCTGGAAATCAAGAGAGTGTCTGTAGATTTTCAA	4319
Q	y	4319	GTGTGTTCTTTTCCACCAACCCGGAAGTAGCACTTATGATTTTCAATTTTGGAGAGGGA	4378
D	b	4320	GTGTGTTCTTTTCCACCAACCCGGAAGTAGCACTTATGATTTTCAATTTTGGAGAGGGA	4379
Q	y	4379	CCTCAGACTGCAGAGAGCTGTCTCTCAGGGCAATTTCCAGAGAAATGCCCCATGACCCAA	4438
D	b	4380	CCTCAGACTGCAGAGAGCTGTCTCTCAGGGCAATTTCCAGAGAAATGCCCCATGACCCAA	4439
Q	y	4439	AATGTGTTGACTTACTCTCTCTTTTCATTATTAAGTCCCTATATATATGTGCCCTGCT	4498
D	b	4440	AATGTGTTGACTTACTCTCTCTTTTCATTATTAAGTCCCTATATATATGTGCCCTGCT	4499
Q	y	4499	GTGGCTCACTAACGATTAAGCAAAACATTTTCAACAGGAGGCTGTGCTCCCAAGA	4558
D	b	4500	GTGGCTCACTAACGATTAAGCAAAACATTTTCAACAGGAGGCTGTGCTCCCAAGA	4559
Q	y	4559	AGTGGCAACGGCACTCTGTGAAATCTGATGGAATGGCAATGCTTTGTGTGTGAGGAT	4618
D	b	4560	AGTGGCAACGGCACTCTGTGAAATCTGATGGAATGGCAATGCTTTGTGTGTGAGGAT	4619
Q	y	4619	GGGTGAGATGTCCACGGGCGCGATGTCTTCACTTTGAGAGGCTTTGTGAGGATCGGCTA	4678
D	b	4620	GGGTGAGATGTCCACGGGCGCGATGTCTTCACTTTGAGAGGCTTTGTGAGGATCGGCTA	4679
Q	y	4679	TGAGCCAGTGTAAATGATGGGAATGTGGAATGGAGGAAAGGACCGCAATGCTCCTCGGA	4738
D	b	4680	TGAGCCAGTGTAAATGATGGGAATGTGGAATGGAGGAAAGGACCGCAATGCTCCTCGGA	4739

Qy	4739	TAGCGGTTGAGACCTGACGAGATGATGTCGCTCTGCTGAGAGTGGGCTTTGAGCCGTG	4739
Db	4740	GAGCGGTTGAGACCTGACGAGATGATGTCGCTCTGCTGAGAGTGGGCTTTGAGCCGTG	4739
Qy	4739	TCAGAAACGCAAAAGCGCGCGGCGAGGGATTGTTTGGAAAGTTTGGCTCTCTTCA	4858
Db	4800	TCAGAAACGCAAAAGCGCGCGGCGAGGGATTGTTTGGAAAGTTTGGCTCTCTTCA	4858
Qy	4859	GTCGGGTTACAGCGAGTTCCTCTGTGGGCTTTCTCATCTTAATGAGGTTCTTCCGGA	4918
Db	4860	GTCGGGTTACAGCGAGTTCCTCTGTGGGCTTTCTCATCTTAATGAGGTTCTTCCGGA	4918
Qy	4919	CTCTACGNGTCTCTGAGCTGAGCCCGGAGAAAGAAATGATGCACTGCTCTCTCA	4978
Db	4920	CTCTACGNGTCTCTGAGCTGAGCCCGGAGAAAGAAATGATGCACTGCTCTCTCA	4978
Qy	4979	TCTCTCAGGCTGTGCTTAATTCAGAACCAAAAGAGAGGAGCGTCGAGAGGCTCT	5038
Db	4980	TCTCTCAGGCTGTGCTTAATTCAGAACCAAAAGAGAGGAGCGTCGAGAGGCTCT	5038
Qy	5039	GACGGGGCCGAAAGATTGTGAGAACAGAACTAGGGTTTCTGCTGGTGGAGAC	5098
Db	5040	GACGGGGCCGAAAGATTGTGAGAACAGAACTAGGGTTTCTGCTGGTGGAGAC	5098
Qy	5099	CCAGCTGAGCGCCCTGTGAGAGGTCTGTGCAAGTGGCGGTAAAGGCTGAG	5158
Db	5100	CCAGCTGAGCGCCCTGTGAGAGGTCTGTGCAAGTGGCGGTAAAGGCTGAG	5158
Qy	5159	GCTGCTGTTCTTCTCTATCTCACTCTGTCAAGGCCCGCAAGTCTCAGTATTTAGCT	5218
Db	5160	GCTGCTGTTCTTCTCTATCTCACTCTGTCAAGGCCCGCAAGTCTCAGTATTTAGCT	5218
Qy	5219	TTGTGGCTTCTGATGAGAGAAATCTTAATGTGGTTTGTCTTCGATATATCAT	5278
Db	5220	TTGTGGCTTCTGATGAGAGAAATCTTAATGTGGTTTGTCTTCGATATATCAT	5278
Qy	5279	AGCCAGATTTGCAAAATCTTTTAAAGCCGAGTTATGATATCATCTATCTTTAG	5338
Db	5280	AGCCAGATTTGCAAAATCTTTTAAAGCCGAGTTATGATATCATCTATCTTTAG	5338
Qy	5339	AATTTTAACCTATAAACTATGTCTACTGTGTTTCTGCTGTGCTTATGTT	5390
Db	5340	AATTTTAACCTATAAACTATGTCTACTGTGTTTCTGCTGTGCTTATGTT	5390
RESULT 13			
US-09-919-408A-5			
Sequence 5, Application US/09919408A			
Patent No. 6960446			
GENERAL INFORMATION:			
APPLICANT: Lemischke, Thor R.			
TITLE OF INVENTION: METHOD FOR ISOLATING CELLS EXPRESSING			
FLK-2 RECEPTORS AND ISOLATED POPULATIONS			
OF CELLS THAT EXPRESS FLK-2 RECEPTORS			
NUMBER OF SEQUENCES: 11			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Kenyon & Kenyon			
STREET: One Broadway			
CITY: New York			
STATE: New York			
COUNTRY: U.S.A.			
ZIP: 10004			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: PatentIn Release #1.0, Version #1.25			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/09/919,408A			
FILING DATE: 31-Jul-2001			
PRIORITY APPLICATION DATA:			
APPLICATION NUMBER: US 09/208,786			

FILED DATE: 10-DEC-1998
APPLICATION NUMBER: US 09/021,324
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APPLICATION NUMBER: 07/906,397
FILING DATE: 26-JUN-1992
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FILING DATE: 24-DEC-1991
APPLICATION NUMBER: 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wleckowski, Elizabeth M.
REGISTRATION NUMBER: 42,226
REFERENCE/DOCKET NUMBER: 11245/46115
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-425-7200
TELEFAX: 212-425-5288
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 265..4308
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 208..264
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-919-408A-5
Query Match 99.0%; Score 5336.8; DB 3; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

QY 1 CTGTCTCCGACGAGGATACCTGAGTCCGAGATTCGGGAGACACGCGCTCCAGCCGG 60
DB 1 CTGTCTCCGACGAGGATACCTGAGTCCGAGATTCGGGAGACACGCGCTCCAGCCGG 60
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DB 61 GCTGAGCAGGAGCGCCGGTGCCTCCGCGCTCTCCCGGCTTTCGCTGCGGGGCGC-ATA 119
QY 120 CCGCTCTGTGACTTCTTTGGGGGCGAGGAGGAGAGAGAGTCTGTGCTTGAAGAACTG 179
DB 120 CCGCTCTGTGACTTCTTTGGGGGCGAGGAGGAGAGAGAGTCTGTGCTTGAAGAACTG 179
QY 180 GAGCTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 239
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QY 240 GTGATTCTGCGTGAGAGCCGAGCGCTCTGTGGGTTTGAAGTGGCGAATTTCTCCATCC 299

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QY 360 TACTTGCAGAGGAGCAGCGGAGCCTGACCTGGCTTTGGCCCAATGCTCAGCGTATCTGA 419
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QY 600 CAGTACACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 659
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DB 660 CTGCGGAGGAGTGAATTTCAACCTCAATGTGTCTCTTGGCGTATGCAAAAAGAG 719
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DB 780 TTACATGATCAGCTATGCGGATGATGATGATGATGATGATGATGATGATGATGATGAT 839
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DB 840 TCAGTCTATCATGATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 899
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DB 1260 AATCCCTGTAAGATATCAGTTACCCGAGCTCTGATATCAAAATGTAACAAATGGAAG 1319
QY 1320 GCCAATTGAGTCAACTACAAATGATTTGGGAGTGAATCTCAATCATGGAAGTAC 1379

Db 1320 GCCATTGATGTCCAACTACACAAATGATTGTGGCGATGAATCACTACCATCATGGAAGTGAC 1379
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Db 1380 TGAAGAAGATCGAGGAAACTACACGGTCACTCTCAACACCCATTTCATATGAGAAACA 1439
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Db 1860 TACTGTGCAACCTGTGCGCAAGCCAACTGAGAGAGAGTGTGCTCCGTTGTGACATGC 1919
Qy 1920 AGACAGAAATACGTTTGAGAACTTCAAGTGTGTAACAAGCTTGCCTCAACAGGCAACATCGGT 1979
Db 1920 AGACAGAAATACGTTTGAGAACTTCAAGTGTGTAACAAGCTTGCCTCAACAGGCAACATCGGT 1979
Qy 1980 CCAACATGGGCGAATCTCAACACCGATTGCAAGAACTTGAATGCTCTTTGGAAACTGAA 2039
Db 1980 CCAACATGGGCGAATCTCAACACCGATTGCAAGAACTTGAATGCTCTTTGGAAACTGAA 2039
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Db 2160 TTGCTGTGTAACAGCTCATCTCTAGAGCGCATGGCAACCATGATCAACCGGAAATCT 2219
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Qy 2280 TCTCAACCCACACATTAATGATGTTCAAGAGACAAGACCACTGTGTAAGAAATTCAGGAT 2339
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Qy 3180 AGAATGTACAAAGGACTTCTGACCTTGAAGCATCTCATCTGTTACAGCTTCAAGTGGC 3239
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Db 3360 TTAATAAAGACCCGGATTATGTCAAGAAAAGAGATGCCGACTCCCTTTGAAGTGAATGGC 3419
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QY	3600	AGAAATGTACACAGACCATGCTGGACTGCTGGCATGAGACCCCAACCAAGACCTCGTT	3658
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QY	3780	CCTGCGCTACCTCACCTGTTTCTCTGATGGAGGAAAGGAAAGTGTGCGACCCCAATTCCA	3839
Db	3780	CCTGCGCTACCTCACCTGTTTCTCTGATGGAGGAAAGGAAAGTGTGCGACCCCAATTCCA	3839
QY	3840	TTATGACAAACACAGCAGGAATCAGTCATTATCTCGAAGACGTAAAGCCGAGC	3899
Db	3840	TTATGACAAACACAGCAGGAATCAGTCATTATCTCGAAGACGTAAAGCCGAGC	3899
QY	3900	AGTGGTGTAAAAAATTTGAAAGATATCCCATTTGAGGAAACCAAGATTAAGTATCCC	3959
Db	3900	AGTGGTGTAAAAAATTTGAAAGATATCCCATTTGAGGAAACCAAGATTAAGTATCCC	3959
QY	3960	AGATACACGCGCAGACAGACAGTGGGATGTCCTTCATCAGAAAGCTGAAACCTCTGGA	4019
Db	3960	AGATACACGCGCAGACAGACAGTGGGATGTCCTTCATCAGAAAGCTGAAACCTCTGGA	4019
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Db	4080	TGTGGCTCTCGGAAGGCTCCAAACCAAGATGGCTAACAGTCTGGGTATCTACTAGATGA	4139
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Db	4140	CACAGACACCAACCGTGTACTCCAGGAGCAGAGGACGAACTTTTAAAGATGAGATGCTGC	4199
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Db	4200	AGTTCACGCTGACTCAGGGACCAACCTGCACTCTCTGTTTAAATGGAATGTGCTCC	4259
QY	4260	TGTCCCGGCTCCGCCCCCAACTCTCTGAAATCAACGAGAGAGTGTCTGTGATTTTCAA	4319
Db	4260	TGTCCCGGCTCCGCCCCCAACTCTCTGAAATCAACGAGAGAGTGTCTGTGATTTTCAA	4319
QY	4320	GTTGTTCTTTTCCCAACCCGGAAGTACCAATTTGATTTTCAATTTTGGAGAGGGA	4379
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[illegible]

APPLICATION NUMBER: PCT/US92/02750
FILING DATE: 19920402
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: PEIT, IRVING N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPPT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
FAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 208..4308
PCT-US92-02750-7

Query Match 99.0%; Score 5336.8; DB 6; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

QY 1 CTGTGTCCCGCAGCGGATTAACCTGGCTGACCCGATTCGGGGACACCGCTGACGCCG 60
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RESULT 15
PCT-US92-05401-5
Sequence 5, Application PC/RUS9205401
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESSES:
ADDRESSEE: IMCONE SYSTEMS INCORPORATED
STREET: 180 VARICK STREET
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/05401
FILING DATE: 19920626
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPPPPT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 5406 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 208..4311
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 208..4308
PCT-US92-05401-5
Query Match 99.0%; Score 5336.8; DB 6; Length 5406;
Best Local Similarity 99.7%; Pred. No. 0;

Matches 5377; Conservative 0; Mismatches 12; Indels 3; Gaps 3;

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Qy 5357 TATGCTACTAGTGTCTGCTGTGCTT 5385
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Db 5426 YGDSDCRSTKDTTTTTTTTTTGGCCTT 5454
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RESULT 2
US-10-995-561-389
; Sequence 389, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: C1001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 389
; LENGTH: 5832
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-389

Query Match 62.4%; Score 3365; DB 7; Length 5832;
Best Local Similarity 78.7%; Pred. No. 0;
Matches 4327; Conservative 13; Mismatches 1003; Indels 158; Gaps 21;
Qy 14 CCGATTAACCTGGTGACCCCGATTCGCGGAGACCCGCTGAGCGCGGCTGGAGCCAGGG 73
| | | | |
Db 104 CTGATATCTCTCTCAACCGGACCCGCAACGCGCTGAGCGCGGCTGGAGCGCGG 163
| | | | |
Qy 74 CGCGGAGCCCGGCTCTCCCGGTTCTGCTGCGCGGAGC-----ATACCGCTCTG 128
| | | | |
Db 164 CTCCCTAGCCCTGTGCGCTCACTGTCTCTGCGGCGGAGTTCCACTCTCG 223
| | | | |
Qy 129 TGACTTTTGGCGGCGAGGAGGAGAGTCTGTGCTGAGAACTGGGCTGTG 188
| | | | |
Db 224 CGCTCTCTCTAGACAGCGCTGGAGAAACCGGCTCCGAGTTCTGGCATTTTC 283
| | | | |
Qy 189 CCGAGGCGGAGGTGAGATGAGACCAAGCGCTGAGTCCCTGTGAGTCTG 248
| | | | |
Db 284 GCCCGGCTGAGGAGAGTGCAGACCAAGTGTCTGCGGCTGCGCTGTGCTG 343
| | | | |
Qy 249 CGTGAAGACCCGAGCGGCTCTGTGGGTTGACTGGGATTTTCTCATCCCGCAAGCT 308
| | | | |
Db 344 GTGGAACCCCGGCGGCTCTGTGGGTTGACTGGGATTTTCTCATCCCGCAAGCT 403
| | | | |
Qy 309 CAGCACAAGAAAGACATCTGACATTTTGGCAATTAACAACCTTCAATTTCTGAG 368
| | | | |
Db 404 CAGCATCAAAAAGACATCTTCAATTAAGCTTAATTAACAACCTTCAATTTCTGAG 463
| | | | |
Qy 369 GGGACACCGGAGCCTGAGACGCTTTGGCCCAAGCTCAGGTGATCTGAGAAAGGT 428
| | | | |
Db 464 GGGACAGGAGACTTGAACGCTTTGGCCCAATTAACAAGTGTGAGTGCAGTGCAGAAAGGT 523
| | | | |
Qy 429 ATTGTAAGTGAATGCGGCGGTGTGACAGTATCTTGTGCAAAACACTCACTATTCAG 488
| | | | |
Db 524 GAGGTATGAGTGTGAGCGCATG-----GCTTCTGTGAAGACATCAATTTCCAA 577
| | | | |
Qy 489 GTGTGTAAGATGATCTGAGGCTTCAAGTGTCTGATCCGAGCTCGCATAGCTC 548
| | | | |
Db 578 AGTATGGAATATGACATGAGGCTTCAAGTGTCTGATCCGAGGAACTGATGGCTC 637
| | | | |
Qy 549 CACTGTTTATGCTATGTTGAGATTCAGATTCACATTTGCTGCTGTGATGACCA 608
| | | | |
Db 638 GGTCAATTAATGCTATGTTCAAGTTCACAGTCTCAATTTATCTGTGTAGTACCA 697
| | | | |
Qy 609 GCATGATGCTGTATCACTCAACGAGAAACAAGAACTGTGTGATCCCTGCGAGG 668
| | | | |
Db 698 ACATGAGTGTGTATCACTTATGAGAAACAAGAACTGTGTGATCCATGTCTCG 757
| | | | |
Qy 669 GTCGATTTCAACCTCAATGTGTCTTTGGCTGATGATTCAGAAAGAGATTTGCTC 728
| | | | |
Db 758 GTCCATTTCAAACTCAACGTTGCACTTTGTGCAAGATACCCAGAAAGAGATTTGCTC 817
| | | | |
Qy 729 GATGAGAAACGAATTTCTGTGAGCAGCGATAGGCTTTACTCCCACTTACATGAT 788
| | | | |
Db 818 TGATGTGAACGAATTTCTGTGAGCAGCGATAGGCTTTACTCCCACTTACATGAT 877
| | | | |
Qy 789 CAGCTATGCGGATGCTCTGTGAGGCAAAAGATCAATGATGAACCTATCACTAT 848
| | | | |
Db 878 CAGCTATGCGGATGCTCTGTGAGGCAAAAGATCAATGATGAACCTATCACTAT 937
| | | | |
Qy 849 CATGTACATAGTTGTGTTGAGATTAAGATTTATGATGATTTGAGCCCCCGCA 908
| | | | |
Db 938 TATGTACATAGTTGTGTTGAGATTAAGATTTATGATGATTTGAGTGTGAGTGTGCA 997
| | | | |
Qy 909 TGAATTTGAGTATCTGCGGAGAAACTTGTCTTAAATTTGTACAGGAGAAAGACT 968
| | | | |
Db 998 TGAATTTGAGTATCTGTTGAGAAAGCTTGTCTTAAATTTGTACAGGAGAAAGCT 1057
| | | | |
Qy 969 CAATGTGGGCTTATTTCACTGCACTCTCACTCAAGTCTCATTAAGAGAT 1028
| | | | |
Db 1058 AATGTGGGATTAATTTCACTGCACTCTCTTCTGAGATCATGATTAAGAGAT 1117
| | | | |
Qy 1029 TGTAAACCGGATGTGAACCCCTTCTGTGAGCTGTGGAGAAAGTTTTGTGAGCACTT 1088
| | | | |

1118 TGTAAACCGAGACCTAAAAACCCAGTCTGGAGTGAAGAAATTTTGGACCTT 1177
1089 GACAAATAGAAAGTGTACCAAGAGTGAACCAAGGGAAATACCTGTGTAGCTCCAGTGG 1148
1178 AACTAATAGATGGTGTAAACCCGAGTGAACCAAGATTTGTACCTGTGGACATCCAGTGG 1237
1149 ACGATGATCAAGAAATAGAAATTTGTCCGAGTTTCAACAAGACCTTTATTCCTT 1208
1238 GCTGATGACCAAGAAACAGACATTTGTCAAGGTTCAATGAAAAACCTTTGTTCCTT 1297
1209 CGGTAGTGGAGTGAATCTTTGGTGAAGCAACAGTGGGAGTCAAGTCCGATCCCTGT 1268
1298 TGGAGTGGCATGGAATCTCTGGTGAAGCAACGTTGGGGAGCGTGTABATCCCTGG 1357
1265 GAAATGTCATGTTACCCAGCTCTGTATCAATGTGTACAGAAATGGAAGGCCATTGA 1328
1358 GAAATGACCTTGTGTACCCACCCCAAGAAATAAATGTATTAATAATGGAATACCCCTTGA 1417
1329 GTCAACCTACAAATGATTTGGGAGTGAACCTCAACATCATGGAAGTGAATGGAAGAGA 1388
1418 GTTCAATCAACAATTAAGCGGGAGTGTACTGACGATTTAGAAATGGAAGAGA 1477
1389 TGCAGGAACTACACGCTATCTTCAACAAACCCATTTGATGAGAAACAGAGCCACAT 1448
1478 CACAGAAATTAACCTGATCTTACCAATCCCATTTCAAGAGAAACAGAGCCATGT 1537
1449 GGTCTCTGTGTGTGAATGTCCACCCCAAGATCGGTGAAGAAACCTTATCTCCCTAT 1508
1538 GGTCTCTGTGTGTGTATGTCCACCCCAAGATGGTGAAGAAATCTTATCTCTCTGT 1597
1509 GGAATTCCTACAGTATGGAGCAATGAGCAATTTGATGACAGTCTAGCCAAACCTTCC 1568
1598 GGAATTCCTACAGTATGGAGCACTAAACGCTGACATTTACGCTTATGCAATTCCTCC 1657
1569 CCTGACCAACATCAGTGTACTGAGCTAGAGAAAGCCTGCTCTTACAGACCCGAGCA 1628
1658 CCGGATGACATCCACTGGTATTTGGAGTTGGAGAAAGTGGCCAAAGAGCCAGGCA 1717
1629 A-----ACAAACCCGATGCTTTGTAAAGATGAGACACGTGAGAGATTTCA 1676
1718 WCTGTCTCAGTGAACCAACCCATACCTGTGAAAGATGAGAAAGTGTGAGAGATTTCA 1777
1677 GGGGGGAAACAGATGGAAGTGAACCAAAACCAATGTGCTGATTTGAGAGAAACAA 1736
1778 GGGAGAAATTAATTTGAATTAATTAATTAATTAATTAATTTGCTTATTTGAGAGAAACAA 1837
1737 AACTGAAGTACGCTGTGATCAAGCTGCAACGCTGAGCGTGTGTAACAAATGTGAAC 1796
1838 AACTGAAGTACCTTGTATCAAGAGCGCAATGTGTGAGCTTTGTACAAATGTGAAC 1897
1797 CATCAACAAAGCGAGAGAGAGAGAGGTCTCTCTTCAATGTGATCAGAGGCTCTGA 1856
1898 GGTCAACAAAGTGGGAGAGAGAGAGGTGTCTCTTCAAGTGAACAGAGGAGCTCTGA 1957
1857 AATTACTGTGAACCTGCTGCCAGCACTAGAGAGAGAGAGTGTCTCTTGTGTGAC 1916
1958 AATTACTGTGAACCTGACATGACGCCCACTAGAGAGAGAGAGCGTGTCTTGTGTGAC 2017
1917 TGCAGAGAAATAGCTTTGAGAACTCAGTGTGTAACAAGTGTGCTACAGGCAATC 1976
2018 TGCAGAGATCTTAGTGTGAGAACTCAGTGTGTAACAAGTGTGCTACAGGCAATC 2077
1977 GGTCAACATGGGAGATCTACACACCAATTTGCAAGAACTTGATGCTCTTGTGAAC 2036
2078 AATCATGTGGAGAGTGGCCCACTGTGTGCAAGAACTGTGATCTCTTGTGAAT 2137
2037 GAAATGACCATGTTTCTTAAGACAAATGATCATTTGAGGCTTTCAAGATCC 2096
2138 GAATGCACCATGTTTCTTAATGACAAATGATCATTTGATGAGCTTTAAGATCC 2197
2097 CTCTGTGAGACCAAGGCACTATGTTGCTCTGTCAAGATTAAGAGACCAAGAAAG 2156

2198 ATCTTGCAGAGCAAGAGACTATGTCTGCTTGTCAAGACAGGAAACCAAGAAAG 2257
2157 ACATTCCTGTGTCAAAACAGCTCATCTTAAGAGGAGATGAGCAACCATATATCACCGGAA 2216
2258 ACATTCGCTGTGAGGCAAGCTCAAGTCTTAAGAGGCTGTGGAGCCACCATATCACAGGAA 2317
2217 TCTGGAGATCAAGCAACCAATGGAGAGCAATGAAAGTGAAGTCTTGGCCAGCATCTGG 2276
2318 CTTGAGAAATCAAGACAAAGTATTTGGGAAAGCATGAAAGTCTCATGACCGCATCTGG 2377
2277 AATCTCAACCCCAACATTACATGTGTCAAGACAAAGAGCCCTGTGAAGATTCAG 2336
2378 GAATCCCCCTCAGACAGATCATGTGTTAAAGATATGAGACCTTGTGAAGACTCAG 2437
2337 CATTTGATGAGAGATGGGAAACCGGAACTGTACTATCCGAGGGTGAAGAGAGATGG 2396
2438 CATTTGATGAGAGATGGGAAACCGGAACTGTACTATCCGAGAGTGAAGAGAGAGCA 2497
2397 AGGCTCTACATGTCGACAGGCGCTGCAATGCTTGGCTGTGCAAGAGCGGAGCGCTTT 2456
2498 AGGCTCTACATGTCGACAGGCAATGCAATGCTTGGCTGTGCAAGAGCGGAGCATTTT 2557
2457 CATTAATAGAGGTGCCAGAGAAAGCAACTTGAAGTCAATTAATCTTGTGCGACCTGC 2516
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2517 AGTATGCGATGTTCTTGGCTCTTGTGTCAATGTCTTACGAGCCGTTAAGCGGCG 2576
2618 GGTGATGCAATGTTCTTGGCTCTTGTGTCAATGTCTTACGAGCCGTTAAGCGGCG 2677
2577 CAATGAGGGGAACTGAGAGACAGGCTACTGTGTAATGATGATGATGATGATGATGATG 2636
2678 CAATGAGGGGAACTGAGAGACAGGCTACTGTGTAATGATGATGATGATGATGATGATG 2737
2637 CTGTGATGAGCGCTGTGAACGCTTGCCTTATGATGATGATGATGATGATGATGATG 2696
2738 ATTTGATGAACATTTGAAACGATCTGCTTATGATGATGATGATGATGATGATGATG 2797
2697 CCGGCTGAAACTAGGAAACCTTGTGGCGCGGTGCTTGGCCAAAGTATGAGGAGCA 2756
2798 CCGGCTGAAAGCTAGGAAACCTTGTGGCGCGGTGCTTGGCCAAAGTATGAGGAGCA 2857
2757 CGCTTTGGAATTTGCAAGACAGGCACTTGTGCAAAACATGAGCGCTCAAGATTTGAAAG 2816
2858 TGCCTTTGGAATTTGCAAGACAGGCACTTGTGCAAAACATGAGCGCTCAAGATTTGAAAG 2917
2817 AGGAGCAACACAGAGAGCATGAGCCCTCATGTCTGAACCTCAAGATCTCATCAAT 2876
2918 AGGAGCAACACAGAGAGCATGAGCCCTCATGTCTGAACCTCAAGATCTCATCAAT 2977
2877 TGTGACATCTCAATGTGTGAACCTCTAGGCGCTGACCAAGCGGGAGGCGCTT 2936
2978 TGTGACATCTCAATGTGTGAACCTCTAGGCGCTGACCAAGCGGGAGGCGCACT 3037
2937 CATGATGATGAGAAATCTGCAATTTGGAACCTTATCAATCTTCAATCGGGGAGAG 2996
3038 CATGATGATGAGAAATCTGCAATTTGGAACCTTATCAATCTTCAATCGGGGAGAG 3097
2997 AATGAATTTGTTCCCTATTAAGAGCAAGGGGCAAGCTTCCGACAGGCAAGATCACT 3056
3098 AATGAATTTGTTCCCTATTAAGAGCAAGGGGCAAGATTTCCGACAGGCAAGATCACT 3157
3057 TGGGAGCTCTCGTGTATCTGAAGAGCGTTGGAACAGCATCACAGAGCGCAAGCTC 3116
3158 TGGAGCAATCTCGTGTATCTGAAGAGCGCGCTTGAACAGCATCACAGAGCGCAAGCTC 3217
3117 TGGAGCTCAGGCTTGTGAGAGAAATCGCTCATGTATGTAAGAGAGAGAAAGCTTC 3176
3218 AGCCAGCTCTGATTTGTGAGAGAGAGCTCTCATGTATGTAAGAGAGAGAGAGCTTC 3277
3177 TGAAGACTGTATCAAGAGCTTCTGAGCTTGGAGCATCTATCTGTACAGCTTCAAGT 3236
3278 TGAAGACTGTATCAAGAGCTTCTGAGCTTGGAGCATCTATCTGTACAGCTTCAAGT 3337

QY	3237	GGCTAAGGCAATGAGATTCTTGGCATCAAGAAAGTGTATCCACAGGACCTGGCAGCAC	3296
Db	3338	GGCTAAGGCAATGAGATTCTTGGCATCCGGAAGGTATCCACAGGACCTGGCAGCAC	3397
QY	3297	AAACATTCTCCATATGCGAAGAAATGTGGTTAAGATCTGTGACTTCGGCTTGGCCCGGGA	3356
Db	3398	AAATATCTCTTATATGCGAAGAAAGTGGTTAAATCTGTGACTTGGCTTGGCCCGGGA	3455
QY	3357	CATTATATAAGACCCGGATTATGTCAAGAAAAGAGATGCCGACTCCCTTGAAGTGGAT	3416
Db	3458	TATTATATAAGATCCAGATTATGTCAAGAAAAGAGATGTGCTCCCTTGAAGATGGAT	3511
QY	3417	GGCCCCGGAACCACTTTTGTGACAGAGTATACAACTTACAGACGATGTGTGGTCTTTGGG	3478
Db	3518	GGCCCCGGAACCAATTTTGTGACAGAGTATACCAATTCAGATGACGTGTGGTCTTTTGGG	3577
QY	3477	TGTGTGTGCTCTGGAAATATTTTCTTAAAGTGCCTCCCAATACCTCGGGGGTCAAGATTGA	3536
Db	3578	TGTTTGTGCTGTGGAAATATTTTCTTAAAGTGCCTCTCAATATCTCGGGGGTAAAGATTGA	3633
QY	3537	TGAAGATTTTGTAGAGATTGAAAGAAAGAACTAGAAATGCGGGCTCTGTACTATAC	3596
Db	3638	TGAAGATTTTGTAGAGATTGAAAGAAAGAACTAGAAATGAGGGCCCTGTATTATATAC	3697
QY	3537	CCCAAAATATACCAAGCAACATGCTGTGATAGAGACCCCAACCAAGACCTCTC	3656
Db	3638	ACCAAAATATACCAAGCAACATGCTGTGATAGAGACCCCAATCAAGACCTCAC	3757
QY	3657	GTTTTCAGAGTGTGGAGCAATTTGGGAAACCTCCTGCAAGCAATATGCGACAGAGATGG	3716
Db	3758	GTTTTCAGAGTGTGGAGCAATTTGGGAAACCTCTTGCAGATATATCTCAGCAGAGATGG	3817
QY	3717	CAAAGACTATATTTGTTCTTTCCAAATGTCAAGACACTGAGCATGGAAGAGATTTGCACT	3776
Db	3818	CAAAGACTATATTTGTTCTTTCCAAATGTCAAGACCTTGGAGATGGAAGAGATTTGCACT	3877
QY	3777	CTCCCTGCTACCTCAACCGTTTCTGTATGGAGGAAGAAGAGTGTGCAACCCCAATT	3836
Db	3878	CTCTTGCTACCTCAACCGTTTCTGTATGGAGGAAGAAGATGTATGTACCCCAATT	3937
QY	3837	CCATTATGACAAACAGCAGAGATACGTATCTCCAGAACAGTAAACGAAAGACCG	3896
Db	3938	CCATTATGACAAACAGCAGAGATACGTATCTCCAGAACAGTAAACGAAAGACCG	3997
QY	3837	GCCAGTGAAGTAAAAACATTTGAAGATATCCATTGAGAGAACGAAATGAAATGAT	3956
Db	3938	GCCGTGTAGTAAAAACATTTGAAGATATCCCGTTAAGAACGAAATGAAATGAT	4057
QY	3957	CCCAAGTACACGCGCAGACAGACAGTGGGATGCTCTTCATCAGAGAGCTGAAAACCT	4016
Db	4058	CCCAAGTACACACGCGCAGACAGTGGGATGCTCTTCAGAGAGAGCTGAAAACCTT	4117
QY	4017	GGAAGACAGAAACAAATTATCTCATCTTTTGTGGAAATGATGCCCACTAAAGACAGGGA	4076
Db	4118	GGAAGACAGAAACAAATTATCTCATCTTTTGTGGAAATGATGCCCAACAAAGAGGGA	4177
QY	4077	GTTGTGGCTTCGAAAGCTCCAAACAGACCAAGTGGCTTACAGATGTGGGTATCACTCAGA	4136
Db	4178	GTTGTGTGCACTTGAAAGCTCAAAACCAACAGACGCTTACCAAGTCCGATATCACTCCGA	4237
QY	4137	TGACACAGACACACCGTGTACTCCAGAGGAGAGGACAGACTTTTAAAGATGTGGATGC	4196
Db	4238	TGACACAGACACACCGTGTACTCCAGTGAAGAGACAACTTTTAAAGTGTGATGAGAT	4297
QY	4197	TGCAG-----TTACCGCTGACTCAGGGAACCAACTGCG	4229
Db	4298	TGAGATGCAAACVGGTACACAGCCCAATTTCTCAGGCTGACACGCGGGAACCACTGAG	4357
QY	4230	CTCAGCTCTGTTTAAATGGAAGTGTCTGTCCCGGCTCCGCCCCCACTCTTGGAAAT	4289
Db	4358	CTCTCTCTCTCTTTAAAGGAAG-----CATCAACACCCCAACTCTGAGCAT	4406

OY	4280	TACGAGAGAGGTCGCTTAATTTCAGAGTGTTCTTTCCACACCCGGAAGTACC	434
Db	4407	CACATGAGAGGTCGCTCAAGATTTTSAAGTGTGTTCTTTCACACAGAAATACCC	4466
OY	4350	ACATTGATTTTTCATTTT-----TTGAGAGAGGAGCTCAGACTGCAAGAGCTTCTCTC	4404
Db	4467	GCATTGATTTTTCATTTTGACACACAGAAAAAGACCTCGACTCGAGGAGACCACTCTTC	4522
OY	4405	AGGCGATTTCCAGAGAGATGCCATGACCCAGAAAT-----GTGT	4445
Db	4527	TAGGCATTTCCCTG--GAGAGGCTGTGACCCAGAAATGTGTCTGTGTCTTCCCAAGTGT	4585
OY	4446	TGACTCTACTCTCTTTTTCATTTCAATTTTAAAGTCTCTATATATATATGTGCCCTGTG--TGCTC	4504
Db	4586	TGACCTGATCCCTTTTTCATTTTCATTTTAAAAAGCATTTATATATGCCCCCTCTCTGTGGGCTC	4645
OY	4505	TCACTACAGATTAAAGCAAAGAATTTCACACAGTGGAAGTCTGTGCTCCCAAGAAAGTGC	4566
Db	4646	TCACCATGGGTTTGAACAAAGAGCTTCAGAA--ATGGCCCCATCTCTCAAGAAAGTATGC	4703
OY	4565	A-----ACGGCACTCTGTGAACTGAGTCGATGCGAATGGCAATGCTTGTGTGTT	4612
Db	4704	AGTACCTGGGAGCTGACACTTCTGTAAATCTAGAAAGTAAACAGGCAATGTAAATGTTT	4765
OY	4613	GAGCATGGGTGAGATGTCTCCAG---GGCCAGTCTGTCTACTTTGAGAGCTTTGTGAG	4668
Db	4764	CGAGGTGTGAAGATGGAGAGATTTTGGAGGGCTGAGAGTCTATCCAGAGGCTTTGTATTAG	4823
OY	4669	GATGCGGCT-ATGAGCCAAAGTGTAAAGTGTGGATGTGACCTGGAGAGGAAGAAAGCGCA	4722
Db	4824	GACGTGGGTCCCAAGCCCAAGCTTTAAGTGTGAAATTTGGATTTGATAGAAAGAAAGACTTA	4883
OY	4728	AG-----TCGCTCGAGAGCGGTTGAGAGCTGCAAGATGATTTGTGTGCTCTGTGTGAG	4782
Db	4884	CGTTACCTTGCTTTGAGAGATGACGAGCTGCAAAATGCAATTTGTGTTGTCTGTGGTGGAG	4943
OY	4783	GTGGGCTTTGTGCGCTGTTCAGAAACCGAAAGCGGCGGCGAGGGTTTGGTTTGGAAAGT	4842
Db	4944	GTGGGCAATGGGGTCTGTTCGTGAAATGTAAAGGGTTTCAGACGGGGTTCCTGTGTTTAAAG	5003
OY	4843	TTGCGTGTCTTTCACAGTCGGGTTTACAGGCAAGTCCCTGTGGGGTTTCTTACTCTTAAT	4902
Db	5004	GTTCGCGTCTTTTGTGAGTTGGGCTTAAAGTAAAGTTCGTTGTGTGTTTCTGACTCTTAAT	5063
OY	4903	GAGAGTTCCTTCCGGAAGCTTTACGTGTCTCTGTGCGCTGCGCCCAAGAGGAAGAAATGATGCA	4962
Db	5064	GAGAGTTCCTTCCAGACCGTTACGTGTCTCTGTGCGCAAGCCCAAGAAAGAAATGATGCA	5123
OY	4963	GCTTGTCTTCTCTCATATCTCTCAGGCTGTGTCTTAATTCAGAACACCAAAAGAGAGAAC	5022
Db	5124	GCT--CTGGCTCTCTGTGTCTCCAGGCTGATCTCTTTATTCAGAAATTCACCAAGAAAGAAC	5181
OY	5023	GT--CGGAGAGGCTCCGACCGGGCGGAGAAATTTGAGAACAGAAACAGAAATCTCAGGG	5080
Db	5182	ATTACAGCTCAAGGCTCCCTGCGGTGTGAAAGATTCTGACTGCACAAACCAAGCTTCTGGGT	5241
OY	5081	TTTCTGTGTGTGAGAACCAAGCTGTGC-----GCCTGTGTGCAAGGTCT	5124
Db	5242	TTCTTCTGGAATGAAATACCTCATATCTGTCTGATGTGATGTCTGAGACTGAATGCG	5301
OY	5125	GAGGCTTCTGTCAA-----GTGCGGTAAGAGCTCAGGCTGTGTCTTCTCT--	5175
Db	5302	GGAAGTTCATATGTAACCTGTGTGTGTGTCTCAAGATTTTCAGGAAGGAAATTTTACCTTTTG	5361
OY	5176	-----ATCTCAGATCTCTGTGTGAGGCGCCCAAGTCTCTCAGTATTTTACGTTGTG	5223
Db	5362	TTCTTCCCCCTGTCCCAACCACTCTCACCCCGCAACCATCATGATTTTAAAGTAAATTTG	5421
OY	5224	GCTTCTGATGTGAGAAAATCTTAAATTTGGTGTGTGTCTCTCAGATTAATCATCAAGCCA	5283
Db	5422	G---CTCTACTCCAGTAAACCTGATTTGGGTTTGTCACTCTCTGAAATGATTAATTAGCCA	5478
OY	5284	GATTTGCAAAATCTTTTAAAGCGAGATTATGATATACATCTACTGTATCTTTAGAAATTT	5343

Db 5479 GACTCAAAATATTTATAGCCCA---AATTATAACATCTATGTAATATTAGACTT 5535
Qy 5344 TAACTATAAATACTATGCTACTGCTTCTGCTGCTGCT 5384
Db 5536 TAACTATAAGACTATTTCTACTGATTTTGCCCTTGCT 5576

RESULT 3
US-10-995-561-387
; Sequence 387, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 387
; LENGTH: 5200
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-387

Query Match 59.1%; Score 3183.4; DB 7; Length 5200;
Best Local Similarity 78.4%; Pred. No. 0;
Matches 4034; Conservative 13; Mismatches 894; Indels 202; Gaps 12;

Qy 14 CCGGATTAACCTTGACCCGATTCGGGGACACCGGCTGACCGCGGCTGAGCGAGG 73
Db 104 CTGGATATCTCTCTTCCACCGGACCGGACGACGCGCCCTGACGCGGGCTGGCGCGG 163
Qy 74 CGCGGATGCGCGGCTCTCCCGATCTTGCGCTGCGGGGCGC-----ATACCGCTCTG 128
Db 164 CTCCCTAGCGCTGTGGGCTCACTGCTGCGCTGGGGGTCGCGGAGTTCCACTCTCG 223
Qy 129 TGACTTTCTTTGGGCGGACGAGGAGAGAGTCTGCTGAGAAATGCGGCTCTGTG 188
Db 224 CGCCCTCTCTCTTACACAGGCGCTGGAGAAAGAACCGGCTCCCAATCTTGGGCAATTC 283
Qy 189 CCCAGCGGAGGTCAGAGATGAGAGAGAGGCGCTAGCTGCTGCTGCTGCTG 248
Db 284 GCCCGCTGAGAGTCAGAGATGACAGAGAGTGTGCTGCGCTGCTGCTGCTGCTG 343
Qy 249 CGTGAGACCGGAGCGGCTCTGTGGGTTGACTGGGATTTCTTCATCCCGCAAGCT 308
Db 344 CGTGAGACCGGAGCGGCTCTGTGGGTTGCTGAGTGTCTCTTGAATCTGCCAGGCT 403
Qy 309 CAGCACACAGAAAGACATCTGACATTTTGGCAAAATCAACCTTCAGATTACTTGAG 368
Db 404 CAGCATACAAAAGACATCTTACATTAAGGCTTAATCACTTTCAAAATTAATTCGAG 463
Qy 369 GGGACAGGGGACCTGGAAGCTGCTTGGCCCAATGCTAGCGTGAATTCGAGAGAAAGT 428
Db 464 GGGACAGGGGACCTGGAAGCTGCTTGGCCCAATGAGTGGACAGGCAAGGAGT 523
Qy 429 ATTGTGACTGATGCGGCGGTGTGACAGTATCTTTCGCAAAACCTCACCATTCGAG 488
Db 524 GGAAGTGACTGATGTCAGAGATG-----GCTCTTCTGTAGAGACTCAAAATTCGAAA 577
Qy 489 GGTGTTGGAATGATTACTGAGCTTACAGTGTCTGTAACGGGACGTGACATTAAGCTC 548
Db 578 AGTATTCGAAATGACACTGAGCTTACAGTGTCTTACCGGGAACCTGATGGCTC 637
Qy 549 CACTGTTATGCTATGTTGAGATTACAGATCACATTCAGCTGCTGTCAGAGACA 608
Db 638 GGTCTTTATGCTATGTTGAGATTACAGATTCATTTATGCTTCTGTTAGTGAACA 697
Qy 609 GCATGCAATGCTGATCATCAACGAGAACAGAACTGTGTGATCCCTGCGGAGG 668

Db 698 ACATGAGAGTCGTGATCATTAATGAGAAACAAACCTGTGTGATTCATGCTCGG 757
Qy 669 GTGCATTTCAACCTCAATGTGTCTTTGGCTAGGTATCCAGAAAGATTTGTTCC 728
Db 758 GTCCATTTCAATTCACAGTGTCACTTTGTCCAAAGATCCAGAAAGATTTGTTCC 817
Qy 729 GGATGAAACAGAAATTTCTGAGACAGGAGATAGGCTTATCTCTCCAGTTACATGAT 788
Db 818 TGATGTAAAGAAATTTCTGAGACAGGAGAGGCTTTACTATTTCCAGCTACATGAT 877
Qy 789 CAGCTATGCGGACATGCTTCTGTGAGCAAGATCAATGATGAACCTATCACTAT 848
Db 878 CAGCTATGCTGACATGCTTCTGTGAGCAAGAAATTAATGATGAAGTTACAGCTAT 937
Qy 849 CATGTACATGATGTTGTTGATGATATGATTTATGATGATTTGAGGCCCCCGCA 908
Db 938 TATGTACATGATGTTGTTGATGATGATTTATGATGATGTTGATGATGATGATGAT 997
Qy 909 TGAATTTGAGTATGCTGCGGAGAAACCTTCTTAATTTGATGAGGAGAAAGAGCT 968
Db 998 TGAATTTGAGTATGCTGCGGAGAAACCTTCTTAATTTGATGAGGAGAAAGAGCT 1057
Qy 969 CAATGTGGGCTTGTATTTCACTGCACTTCCACCTTCAAGTCTCATTAAGAT 1028
Db 1058 AATGTGGGATTTGATTTCACTGCACTTCCACCTTCTTCAAGATCATTAAGAT 1117
Qy 1029 TGTAAACCGGATGTAACCTTCTTGGGACCTGCGGAGATGTTTGAACCTT 1088
Db 1118 TGTAAACCGGATGTAACCTTCTTGGGACCTGCGGAGATGTAAGAAATTTTGAACCTT 1177
Qy 1089 GACATATGAGTATGACCAAGAGTACCAAGGAGGAAATACCTGTGTAGCTCCAGTG 1148
Db 1178 AACTATGATGTATGACCAAGAGTACCAAGGAGGAAATGATGATGATGATGATGATGAT 1237
Qy 1149 ACGATGATCAAGAGAAATGAAACATTTGTCCGATTCACCAAGGCTTTTATGCTT 1208
Db 1238 GCTGATGACCAAGAGAAACAGACATTTGTGAGGCTCATGAAACCTTTTGTGCTT 1297
Qy 1209 CGGTATGAGTGAATTTCTTGTGAGAGCCACATGCGGACATCAATCCCTGT 1268
Db 1298 TGAAGTGCATGATGATCTGTGTGAGAGCCACGTTGGGAGCGTGTCAATATCCCTGC 1357
Qy 1269 GAATGATGCTAGTATCCAGGCTCTGATATCAATGATGATGATGATGATGATGATGAT 1328
Db 1358 GAATGATGCTAGTATCCAGGCTCTGATATCAATGATGATGATGATGATGATGATGAT 1417
Qy 1329 GTCCATTAACAATGATTTGTTGGATGAATCTCAACATCAATGATGATGATGATGATGAT 1388
Db 1418 GTCCATTAACAATGATTTGTTGGATGAATCTCAACATCAATGATGATGATGATGATGAT 1477
Qy 1389 TGCAGAAATCAACGCTGATCTTCAACACCCATTTCAATGAGAAACAGGCAAT 1448
Db 1478 CACAGAAATTAACGCTGATCTTCAACATTTCAATGAGAAACAGGCAAT 1537
Qy 1449 GGTCTCTGTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1508
Db 1538 GGTCTCTGTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1597
Qy 1509 GGATTTCTTACAGATGAGGACATGACAGATTTGATGATGATGATGATGATGATGATGAT 1568
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Qy 1569 CCTGACACATCCAGTGTACTGCGACGTAGAGAGGCTGCTCTTACAGACCGGCA 1628
Db 1658 CCGGATCAATCCAGTGTACTGCGACGTAGAGAGGCTGCTCTTACAGACCGGCA 1717
Qy 1629 A-----ACAAGCCGATGCTTTGAAAGATGAGAGACGAGGAGATTTTCA 1676
Db 1718 WGTCTCTCAAGTACAAACCTTCTTGTGAGAAATGAGAGAGTGTGAGAGATTTTCA 1777
Qy 1677 GGGGAGAAACAGATGAGATGACCAACCAATATGCTCTGATTTGAGAGAAACAA 1736

Db 1778 GGGAGGAAATTAATTAAGTTAATAAATCAATTTGCTCTAATTGAAGAAAAACAA 1837
Qy 1737 AACTGAAGTACGCTGTGATCATCAAGCTGCCAACGTGCAGCTGTGTAACAAATGGAAGC 1796
Db 1838 AACTGTAAGTACCTCTGTTATTCGAAGCCGCAAAATGTGTCAAGCTTTGTACAAATGTGAAGC 1897
Qy 1797 CATCAACAAGCCGGACGAGAGAGAGGGTCACTCTTCCATGTGATCAGGGGTCTCGA 1856
Db 1898 GGTCAACAAAGTCGGAGAGAGAGAGGGTATCTCTTCCACGTGAACAAGGGGTCTCGA 1957
Qy 1857 AATTACTGTGAACTGCTGCCGCCAACCTGAGAGAGAGAGTGTGTCCGTGTGTGAC 1916
Db 1958 AATTACTTGTGAACCTGACATGACGCCCACTGAGAGAGAGAGCGTGTCTTGTGTGTGAC 2017
Qy 1917 TGCAGACAGAAATACGTTTGAGAACCTCAGTGTGACAAAGCTTGGCTCAGAGCAACATC 1976
Db 2018 TGCAGACAGATCTAGTTTGAAGAACCTCAGATGTGACAAAGCTTGGCCCAAGCCCTGTCC 2077
Qy 1977 GGTCCACATGGGCGAATCACTCACCAAGTTTGCAAGAACTTGAATGCTCTTTGAAACT 2036
Db 2078 AATCCATGTGGAGAGTGGCCACACCTGTTTGCAAGAACTTGAATCTCTTTGAAATTT 2137
Qy 2037 GAATGGCAACATGTTTTCTAACAGACAATGAACATCTTGATGTGTGCAATTCAGAAATGC 2096
Db 2138 GAATGCCACCAATGTTCTTAATAGCAAAATGACATTTTGAATCAGAGCTTAAAGAAATGC 2197
Qy 2097 CTCTCTGACAGACCAAGGCGACATGTTTGTCTGTCTCAAGATAAGAACCAAGAAAG 2156
Db 2198 ATCCCTGAGAGACCAAGGAGACTAATGTGTGCTTGTCTCAAGACAGAGAAACCAAGAAAG 2257
Qy 2157 ACATTTGCTGTCAAAACAGCTCATCTCTAGAGCGCATGGCAATCCATGATCACCGGAAA 2216
Db 2258 ACATTTGCTGTCAAGGCACTCACAGTCTTAGAGGTGTGGCACCCACGATCACAGGAAA 2317
Qy 2217 TCTGGAGATAGACAACAACCATTTGGGAGAACCTTGAAGTACTTGGCCAGATCTCG 2276
Db 2318 CTTGAGAGATAGAGACAGATATTTGGGAAAGCAATCCAAAGCTCATACAGGCAATCTGG 2377
Qy 2277 AATCTCTACCCCAACATTACATGGTTCAAGAACAAACAGAACCTGTGTAAGAAATTCAG 2336
Db 2378 GAATCCCTCTCAACGATCATGTGTGTTAAAGATTAATGAAACCTTGTAGAAAGCTCAG 2437
Qy 2337 CATTTACTGAGATGGGAAACCGGAACCTGACATATCCGAGGGTGAAGAAAGAGATGG 2396
Db 2438 CATTTGATTTGAAGATGGGAAACCGGAACCTCATATCCGAGAGTGAAGAGAGAGACA 2497
Qy 2397 AGGCTCTACACCTGCCAGAGCTGTCAATGTCCTTGGGCTGTGCAAGAGGAGAGAGCTCTT 2456
Db 2498 AGGCTCTACACCTGCCAGAGCTGTGATGTTCTTGGCTGTGCAAAAGTGGAGGCAATTTT 2557
Qy 2457 CATATAGAAAGGTGCCAGAGAAAGAACCAACTTGAAGTCAATTAATCTCTGTCCGACTGC 2516
Db 2558 CATATAGAAAGGTGCCAGAGAAAGAACCAACTTGAAGTCAATTAATCTAGTAGAGCAAGRC 2617
Qy 2517 AGTGAATGCCATGTTCTTCTGGCTCTTCTTGTCAATGTCTTAAGGACCGTTAAAGCGGC 2576
Db 2618 GGTGAATGCCATGTTCTTCTGGCTCTTCTTGTCAATGTCTTAAGGACCGTTAAAGCGGC 2677
Qy 2577 CAATGAAGGGGACATGAAGACAGGCTACTGTCTAATGTCAATGATCCAGATGAATGGC 2636
Db 2678 CAATGAAGGGGACATGAAGACAGGCTACTGTCTAATGTCAATGATCCAGATGAATGCC 2737
Qy 2637 CTTGATGAGCGCTGTGAACGCTTGCTTATGATGCCAGAAAGTGGGAATTCGCCAGGGA 2696
Db 2738 ATTGATGAGCAATTTGTGAACGACCTTATGATGCCAGAAATGGGAATTCGCCAGGGA 2797
Qy 2697 CCGGCTGAACCTAGGAAACCTCTTGGCCGCGGTGCTTGGCCAAAGTGAAGGCGGA 2756
Db 2798 CCGGCTGAAGCTAGTAAGCTCTTGGCCGCGGTGCTTGGCCAAAGTGAAGGCGGA 2857
Qy 2757 CGCTTTGGAATTTGCAAGACAGGCACTTGAACAAAGTAGCCGTCAAGATGTTGAAGA 2816
Db 2858 TGCTTTGGAATTTGCAAGACAGCACTTGAAGACGTAGCAAGTCAAAATGTTGAAGA 2917

Qy 2817 AGGACAAACACAGCAGAGATCGAGCCCTCATGTCTGAACCTCAAGATCTCTATCCACAT 2876
Db 2918 AGAGACAACACACAGTAGAGATCGAGCTTCATGTCTGAACCTCAAGATCTCTATCCATAT 2977
Qy 2877 TGTTCACCATCTCAATGTGTGAACCTCTAGCGGCTTGACCAAGCCGGAGGGCTCT 2936
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Qy 2937 CATGTGATTTGGAATTTCTGCAAGTTTGGAAACCTTATCAACTTAACTTAAGGGCAAG 2996
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Qy 2997 AATGAATTTGTTCCCTATAAGACAAAGGGGCAAGCTTCCGACGGGCAAGACTACGT 3056
Db 3098 AATGAATTTGTTCCCTATAAGACCAAGGGGCAAGTTCGTCAGAGGAAAGACTACRT 3157
Qy 3057 TGGGAGCTCTCCGTGATCTGAAGAAACGCTTGGACGATCACAGACGCCAGAGCTC 3116
Db 3158 TGGAGCAATCCCTGTGATCTGAAGACGCGCTTGGACGATCACAGTACCCAGAGCTC 3217
Qy 3117 TGCAGCTCAGGCTTTGTGAGGAATGCGCTGATGTGATGAGGAAGAAAGCTTC 3176
Db 3218 AGCCAGCTCTGGAATTTGTGAGGAGAACTCCCTAGTGTATGAAGAGAGAAAGCTTC 3277
Qy 3177 TGAAGAACTGTACAGAGACTTCTGACCTTGGACATCTCATCTGTTAACAGCTTCAAGT 3236
Db 3278 TGAAGATCTGTATTAAGAGACTTCTGACCTTGGACATCTCATCTGTTAACAGCTTCAAGT 3337
Qy 3237 GGTCTAAGGCAATGAGATTTCTTGGCATCAAGAAAGTGTATCCACAGGAACTCTGACAGC 3296
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Qy 3357 CATTTATTAAGACCCGATTAATGTACAGAAAGAGATGCCGACTCCCTTTGAAGTGAT 3416
Db 3458 TATTTATTAAGATCAATTAATGTACAGAAAGAGATGTCTGCTCCCTTTGAATGAT 3517
Qy 3417 GGGCCCCGAAACCAATTTTGAACAGATTAACAAATTCAGAGCATGTGTCTTTCGG 3476
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Db 3638 TGAAGATTTTGTAGAGATTTGAAGAGAACTAGATGAGGCGCCCTGATTTAATAC 3697
Qy 3597 CCCAGAAATGTACCAAGCAATGCTGAGCTGTGCTGAGAGACCCCAACAGAGACCTC 3656
Db 3698 ACCAGAAATGTACCAAGCAATGCTGAGCTGTGCAAGGGGAGCCAGTCAAGAACCCAC 3757
Qy 3657 GTTTTCAGAGTGGTGAAGCAATTTGGGAAACCTCTCAAGCAAAATGCGACAGAGATGG 3716
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Qy 3717 CAAGACTAATTTGTTCTTCAATGTGAGAGACATGAGCATGAGCATGGAAGATTTTGAAGT 3776
Db 3818 CAAGACTAATTTGTTCTTCCGATATCAGAGACTTTGAGCATGGAAGATTTCTGAGCT 3877
Qy 3777 CTCCCTGCTTACTCACTGCTTCTGTATGAGAGAAAGAGAAATGTGCCAATTT 3836
Db 3878 CTCTCTGCTTACTCACTGCTTCTGTATGAGAGAAAGAGAAATGTGACCCCAATTT 3937
Qy 3837 CCATTTATGACAAACACAGAGAAATCAAGTCAATTAATCTCAGAAACGTAAGCGAAAGAGCCG 3896
Db 3938 CCATTTATGACAAACACAGAGAAATCAAGTCAATTAATCTCAGAAACGTAAGCGAAAGAGCCG 3997

OY	3897	GGCAGTAGGTGTAATAAATCTTGAAGATATCCATTGGAGAAACCAAGTAAGTAAATGAT	3956
Db	3998	GCTGTGATGTAAAAACATTGAAGATATCCGTTAGAAGAACCAAGTAAGTAAATGAT	4057
OY	3957	CCGAGATGACAGCCGACAGACAGACAGTGGGATGGTCCCTTGCACTGAGAAGACTGAAACTCT	4018
Db	4058	CCGAGATGACACAGAGGAGACAGTGGATGGTCTTGCTCAGAAAGCTGAAAACCTT	4117
OY	4017	GGAGAACAAGAACAAATTATCTCCATCTTTTGGTGAATGATGCCAGTAAAAAGCAGGAA	4076
Db	4118	GGAAACAAGAACCAATTATCTCCATCTTTTGGTGAATGGTGCCCAACAAAGCAGGAA	4177
OY	4077	GTCGTGGCTCGGAAAGGCTCCAAACAGACCAAGTGGCTAACAGTGTGGGTATCACTCAG	4138
Db	4178	GCTGTGGATTTGAAGGCTCAAAACAGACCAAGCGCTAACAGTCCGATATCACTCCGA	4237
OY	4137	TGACACAGACACACACCGTGTACTCCAGCGACAGAGCGAGACTTTTAAAGATGGTGGATGC	4198
Db	4238	TGACACAGACACCAACCGTGTACTCCAGTGGAGAACACAACTTTTAAAGCTGATGAGAT	4297
OY	4197	TGCAG-----TTACGCTGACTCAGGGACCAACTGCG	4229
Db	4298	TGAGATGCAAAACYGGTACACACAGCCCAATCTCAGCCTGACWCGGGGACCACACTGAG	4357
OY	4230	CTCACCTCCTGTTTAAATGGAAGTGGTCTGTCCGGGCTCCGGCCCCCAATCTCTGGAAT	4288
Db	4358	CTCTCCTCCTGTTTAAAGGAAG-----CATCAACACCCCAACTCTCTGGACAT	4406
OY	4290	CACGAGAGGCTGCTGCTTAGATTTTCAAGTGTGTTCCTTCCACACCCCGGAAGTACCC	4349
Db	4407	CACATGAGAGGCTGCTCAGATTTTSAAGTGTGTTCCTTCCACACAGAGAGTACCC	4466
OY	4350	ACATTGATTTTCATTTTTGGAGAGGACCTCAGACTGCAAGAGCTTGCTCTCAGGGC	4409
Db	4467	GCAATTGATTTTCATTTTGCAACA--AACAAAGACGTCAAGAAATGGCCCATCTC	4523
OY	4410	ATTTCAGAGAAAGATGCCCATGACCCCAAGATGTGTGACTGTACTCTCTTTCCATTCA	4468
Db	4524	AAAGAAGTAGCAGTACTCTGGGAGGTGACATCTGTATAAATATAGAAATTAACAGAGCA	4583
OY	4470	TTTAAAGTCTTATATATATGTGCCCTGCTGTGTCTACATACAGTTAAAGCAAAAGACT	4529
Db	4584	ATGTA-----	4588
OY	4530	TTCAAAACAGTGAACCTGTCTCTCCAGAAATGGCAACGCACTGTGTGAACCTGATC	4589
Db	4589	-----	4588
OY	4580	GAATGGCGCAATGCTTTGTGTGTGAGATGGGTGAGATGTCCCAAGGCCGAGTCTGTCTA	4649
Db	4589	-----AGTGTTCGAGGTGTGGAATGGGAAGATTTTCAGGG-----CTGAGTCTA	4635
OY	4650	CCTTGGAGGCTTTGTGAGAGATGGGGCT-ATGAGCAAGGTGTATATGTGGAGATGTGAC	4708
Db	4636	TCCAAGAGGCTTTGTTTGAACGTGTGGTCCCAAGCCAAGCCTTAAGTGTGAATTCGAT	4695
OY	4709	TGGAGGAAGAAAGCCGACAG-----TCGCTCGAGAGACGGGTGGAGCCTGCAATGCAT	4763
Db	4696	TGATTAAGAAAGAAAGCTAACGTATACCTTGCTTTGGAGAGTACTGGAAGCTCCAAATGCAT	4755
OY	4764	TGTGTGCGCTCTGTGAGAGTGGCTTGTGCCTGTCAAGAAACGCAAAAGCGCGCGCA	4823
Db	4756	TGTGTGTGCTCTGTGTGAGAGTGGGCATGGGTCTGTCTGAATTAAGTAAGGGTTCAAGCG	4815
OY	4824	GGGTTTGGTTTGAAGAGTTTGGCGTCTTCAACGTGGGGTTTACAGCGAGATTCCCGT	4883
Db	4816	GGGTTTCTGTGTTTGAAGAGTTTGGCTGTCTTCCAGTGTGGGCTAAAGTAAGAGTTCGTGT	4875
OY	4884	GGCGTTTCTACTCTTAATGAGAGTTCTTCCGAGACTTAACTGATCTCTGGGCTGGCC	4943
Db	4876	GCTGTTTCTGACTCTTAATGAGAGTTCTTCCAGACCGTTAATGTGTCTCTGGCGCAAGCC	4935
OY	4944	CCAGAGAAATGATGCACTTGCTCTTCTCTATCTCTCAGAGCTGTGCTTAATTACG	5003

Accession	Sequence	Position
Dd	4936 CCAGGAGGAAATATATGCACT--CTGGCTCTTGTGTCTCCAGGCTGATCTCTTATTTAG	4999
Qy	5004 AACACCAAAAGAGGAAAGTC--GGCAGAGGCTCTGACGGGGCCGAGAAATTTGTAGA	5061
Dd	4994 AATACCCAAAGAAAGCATTCAGCTCAAGGCTCCCTGCGGTGTGAAAGAGTTCTGACT	5053
Qy	5062 ACAGAAGCAAACTCAGGGTTTCTGCTGGGAGGAGACCCAGGT	5104
Dd	5054 GCACAAACCAAGCTTCTGGTTCCTTCTGTGAATGAATACCTCTAT	5096

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RESULT 4
US-11-116-698-2
Sequence 2, Application US/11116698
Publication No. US20050281861A1
GENERAL INFORMATION:
APPLICANT: Allergan, Inc.
APPLICANT: Hughes, Patrick
APPLICANT: Malone, Tom
APPLICANT: DeVries, Gerald
APPLICANT: Edeman, Jeffrey
APPLICANT: Blanda, Wendy
APPLICANT: Spada, Ion
APPLICANT: Bacti, Peter
APPLICANT: Whitcup, Scott
TITLE OF INVENTION: MACROMOLECULE-CONTAINING SUSTAINED RELEASE INTRACULAR IMPLANTS
TITLE OF INVENTION: AND RELATED METHODS
FILE REFERENCE: D3157
CURRENT APPLICATION NUMBER: US/11/116,698
CURRENT FILING DATE: 2005-04-27
PRIOR APPLICATION NUMBER: 60/567,423
PRIOR FILING DATE: 2004-04-30
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2
LENGTH: 4071
TYPE: DNA
ORGANISM: Homo sapiens
US-11-116-698-2

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	Query Match	56.2%;	Pred. 3027.8;	DB 8;	Length 4071;
	Best Local Similarity	85.1%;	Pred. No. 0;		
	Matches 3415;	Conservative	0;	Mismatches 562;	Indels 18; Gaps 2;
QY	208 ATGAGAGCAAGCGCTGTACTGTGTGGCTCTGTGTCTTCCGTGAGAACCCGAGCCGCC	267			
Dd	1 ATGAGAGCAAGGTGTGTGTGGCCGCTGCCTGTGGCTTGTCGTGTGAGACCCGGGCGCC	60			
QY	268 TCTGTGGGTTTGAATGCGCATTTTCTCATTCCCCCAAAGTCACACACAGAAAGACTA	327			
Dd	61 TCTGTGGGTTTTCCTAGTGTTCCTTGATCTTGCCAGGCTCACACATCAAAAAAGACTA	120			
QY	328 CTGACAAATTTTGGCAATATCAACCCTTCAGATTACTTGACGGGAGACGGGACCTGGAC	387			
Dd	121 CTTACAAATTAAAGGTAATAACAACCTTCCTCAATTACTTGACGGGACAGAGGAACTTGGAC	180			
QY	388 TGCGTTTGGCCCAATGCTCAGCGTGATTTCTGAGAAAAGGTATTGTGTGACTGAATGCCGC	447			
Dd	181 TGCGTTTGGCCCAATATACAGAGTGAGAGCAAGGAGTGAGTAGACTGATGCGAGC	240			
QY	448 GGTTGTACAGTATCTCTGC AAAACACTCAACCTTCCAGGGGAGTTTGGAAATGATCT	507			
Dd	241 GATG-----GCTCTTTCTGTAAAGACTCAACATTTCCAAAATGATTCGAAATGACACT	294			
QY	508 GGAAGCTTACAAGTGTCTGTACCGGGAGCGTGCACATAGACTTCACCTGTTATGTCTATGTT	567			
Dd	295 GGAGCCTACAAGTGCTCTTACCGGGAAACTGACTTGGCCTCGGCAATTATGTCTATGTT	354			
QY	568 CGAGATTACAGATTCACATTCATTCGCGCTGTGCATGACACAGCATGACATCGTGTACATC	627			
Dd	355 CAAGATTACAGATTCACATTTATGTCTTGTAAGTACCAACATGGAAGTGTGTATACATT	414			

OY	628	ACCGAGAACAAAGAACAAAACGTGGTATCCCTCCGAGGGTGCATTCCAAACCTCAAT	687
Db	415	ACTGAGAACAAAACAAAACGTGGTGAATCCATGTCCTGGATCCATTTCAATCTCAAC	474
OY	688	GTGTCTCTTGGCGTAGGATATCCAAAAAGAAATTTGTTCCGATGGAACAGAAATTTCC	747
Db	475	GTGTCACTTTGTGCAAGATCCCAAAAAAGAAATTTGTTCCGATGGAACAGAAATTTCC	534
OY	748	TGGACACGAGATAGGCTTTACTCTCCCACTTACATGATCAGCTATGCCGACGATC	807
Db	535	TGGGACACAAAGAGGGCTTTACTATTCACAGCTACATGATCAGCTATGCTGGCATGGTC	594
OY	808	TTCTGTGAGGCAAAATCAATGATGAAACCTATCACTATCATGATCAATGTTGGT	867
Db	595	TTCTGTGAGGCAAAAATTAATGATTAAGTTAACAGCTATATTAATGATCAATGTTGCT	654
OY	868	GTAGGATTTAGGATTTATGATGTGATCTGAGCCCCCGCATGAAATTAGCTATCTGCC	927
Db	655	GTAGGATTTAGGATTTATGATGTGATCTGAGCTCCGTCTCATGAAATTTGAATATCTGTT	714
OY	928	GGAGAAAAACTTGTCTTAAATTGTACAGCGAGAACAGAGCTCAATGTGGGCTTGATTC	987
Db	745	GGAGAAAAAGCTTGTCTTAAATTGTACAGAGAACTGAACCTAAATGTGGGATTCACCTTC	774
OY	988	ACCTGGCACTCTCCACCTTCAAAAGTCTCATTAAGAAAGATTGTAAACCGGGATGTAAA	1047
Db	775	AACTGGGAATCCCTCTTTCGAAAGCATCAGCATTAAGAAACTTGTAAACCGAGACCTTA	834
OY	1048	CCCTTTCCTGGGACGTGGCGAGATGTTTTTGACACCTTGACAAATAGAAAGTGTGAC	1107
Db	835	ACCCAGTCTGGAGTGAAGTGAAGAAATTTTGGACACCTTACTATTAAGATGTTAACC	894
OY	1108	AAGAGTACCAAGGGGAAATACACTGTGTAGCGTCCAGTGAACGATGATCAAGAAAT	1167
Db	895	CGAGGTACCAAGAGATGTGAACCTGTGAGATCTCAATGGGCTGATGACCAAGAAAGAC	954
OY	1168	AGAACATTTTGCCAGTTCACACAAAGCCTTTTATTTGCTTTGCGTAGTGGGATGAATCT	1227
Db	955	AGCAATTTTGTACGGGTCCATGAAAAACCTTTTGTGTGGTAAGTGGATGAATCT	1014
OY	1228	TTGTGGAAGCACAGTGGGGACGTCAAGTCCGAAATCCCTGTGAAGATATCTCAGTTAACCA	1287
Db	1015	CTGTGGAAGCACAGGTGGGGAGCGTGTCAAGAAATCCCTGGAGATACCTTGTGTTAACCA	1074
OY	1288	GCTCCTGTATCAATGTGTACGAATGGAAGGCCATTTGATCTCAATACACATGATTT	1347
Db	1075	CCCCAGAAATTAATGTGATTAATAATGGAATACCCCTTGATCTCAATACACATTTAA	1134
OY	1348	GTTGGCGATGAATCACAATCATGGAAGTGAAGTGAAGATGACGAATCAACGGTTC	1407
Db	1135	GCGGGCGATGTATCTGACATTAATGGAATGAGTGAAGAAAGACAACGAATTAACCTGTC	1194
OY	1408	ATCCTCAACCAACCCCATTTTCAATGGAAGAACAGACCAATGTTCTCTGTGTGTGAT	1467
Db	1195	ATCCTTACCAATCCCATTTTCAAGGAGAGACAGAACCAATGTGTTCTCTGTGTGTGAT	1254
OY	1468	GTCCCAACCCAGATCGTGAAGAAAGCCTTGAATCTGGCTATGATTTCTTCAACAGTATGG	1527
Db	1255	GTCCCAACCCAGATTTGTGAAGAAATCTTAATCTCTCTGTGTGATTTCTTCAACAGTATGG	1314
OY	1528	ACCATGACAGATTTGACATGACAGTCTACGCCCAACCTCCCTGACACACATCCAGTGG	1587
Db	1315	ACCACTCAAAAGCTGACATGTATCGGTATATGCCATTTCTCCCCCGCATCAATCCACTGG	1374
OY	1588	TACTGGCAGCTAGAAAGAGCTGTCTTACAGACCCGGCCAA-----ACAAGC	1635
Db	1375	TATTGGCAGTTGAGAGAAAGTGGCCCAACGAGCCCAAGCTGTCTCAGTGAACAAAC	1434
OY	1636	CCGATATCTTGTAAAGAAATGAGACACGTGAGGATTTTCAAGGGGGGAAACAAGTGGAA	1695
Db	1435	CCATATCCCTTGTGAAGAAATGAGAAAGTGTGAGGCTTCCAGGGAGGAAATTAATTTGAA	1494
OY	1696	GTCAACAAAAACAATATGCTCCTGATGGAAGAAAAAACAATGTATAGCTGTGCTC	1755

Db	1495	GTAAATAAAATCAATTTGCTCTAATTGAAGAAAAACAAACTGTAAATACCCTTGT	1554
Qy	1756	ATCCAGCTGCAACGTGTGAGGGTTGTACAAATGTGAACCCATCAACAAAGCGGACGA	1815
Db	1555	ATCCAAAGCGGAAATGTGTCAAGCTTTGTACAAATGTGAACGGGTCAACAAAGTCGGGAGA	1614
Qy	1816	GGAGAGAGGGTCATCTCTCTTCATGTGTATCAGGGGTCTGAAATTACTGTGCACCTGCT	1875
Db	1615	GGAGAGAGGGGTATCTCTTCCACGTGACCAAGGGGTCCTGAAATTACTTTGCAACCTGAC	1674
Qy	1876	GCCAGGCAACTGAGCGAGAGAGGTGTCCTGTGTGCACTGACAGCAGAAATTAAGTTT	1935
Db	1675	ATGCAAGCCCACTGAGCGAGAGAGGTCTTTGTGTGTCACCTCAGCAACATTAAGTTT	1734
Qy	1936	GAGAACTCAAGTGTGTCAAGCTTGTGCTCAACAGGCAACATCGGTCCACATGAGGCGATCA	1995
Db	1735	GAGAACTCAATGTGTACAAAGCTTGGGCCCAACCTCTGTGCATTCATGTGGGAGAGTTG	1794
Qy	1996	CTCACACAGTTTGCAGAACTTGGATGCTCTTTGGAACTGAATGGACCATGTTTTCT	2055
Db	1795	CCCAACACTGTTTGCAGAACTTGGATACTTTGGAAATTAATGCAACCATGTTCTCT	1854
Qy	2056	AACAGCACAATATGACATCTTGATTTGTGGCATTTTCAGAAATGCCCTCTGCAAGACCAAGC	2115
Db	1855	AATGACCAAAATGACATTTTGTATGTAGACCTTAAGATGTCACTCTTGACGACCAAGGA	1914
Qy	2116	GACTATGTTTGTCTGTGCTCAAGATTAAGAAACCAAGAAAGACATTTGGTCCGTGTCAACAG	2175
Db	1915	GACTATGTCTGTGCTGTCAAGACAGGAAACCAAGAAAGACATTTGCGTGTCAAGCAG	1974
Qy	2176	CTCATCATCTTGAAGCGCATGGACCCCATGATACCGGAAATCTGGAAATTCAGACACA	2235
Db	1975	CTCACAGTCTTGAAGCGTGTGGACCCACGATCACAGAAACTTGGAGAAATTCAGACACA	2034
Qy	2236	ACCATTTGGCGAGACCATTTGAATGATCTTGGCCAGCATCTTGAAATTCCTACCCCAACATT	2295
Db	2035	AGTATTTGGGGAAGCAATCGAAGTCTCATGACCGCATCTGGGAATCCCCCTCACAGATC	2094
Qy	2296	ACATGTTTCAAAAGCAACGAGACCCCTGTGTGAAGATTTCAAGGCAATTTGATCTGACAGATGG	2355
Db	2095	ATGTGTTTAAAGTAAATATGAGACCCCTTTTGAAGAACTCAGGCAATTTGATTTGAAGATGG	2154
Qy	2356	AACCGGAACCTGACTATCCGACAGGTGAGGAGAGAGATGAGGCTCTTACACTCCGAC	2415
Db	2155	AACCGGAACCTCACTATCCGACAGTGAAGGAGAGAGAGCAAGAGGCTCTTACACTCCGAC	2214
Qy	2416	GCTGTGCATGTCTTGGGCTGTGCAGAGCGGAGACGCTCTTCAATAATGAAGTGCCACG	2475
Db	2215	GCAATGCAAGTCTTGGCTGTGCAGAAAGTGAAGCAATTTTCAATAATGAAGTGCCACG	2274
Qy	2476	GAAGAAGCAAACTTGAAGTCAATTAATCCGTGTGGGACCTGACATGATTTGCAATGTTCTTC	2535
Db	2275	GAAGAAGCAAACTTGAAGTCAATTAATTTATGATGAGCAGCGGATGATGCAATGTTCTTC	2334
Qy	2536	TGAGCTCTTCTTGTTCATTTGCTTAACGACCGTTTAACCGGCGCATGAAGGGGAACTGAAG	2595
Db	2335	TGAGTACTTCTTGTTCATTCCTAACGACCGTTTAACCGGCGCAAATGAGGGGAACTGAAG	2394
Qy	2596	ACAGGCTACTTGTCTATTTGTCATGATTCAGATGAATTTGCTTGTGATGAGCGCTGTGA	2655
Db	2395	ACAGGCTACTTGTCTCAATCGTCATGATTCAGATGAATCTCCATTTGATGAACATTTGTGA	2454
Qy	2656	CGCTTGTCTTAATATGACAGCAAGTGGAAATTTCCCAAGGACCGGCGTGAACCTAAGAAAA	2715
Db	2455	CGACTGTCTTAATATGACAGCAAAATGGGAATTTCCCAAGAGCCGGCTGAAGCTAAGTTAAG	2514
Qy	2716	CCCTTTGGCGCGGTGCTTCCGACCAAGTGAATTTGAGGACAGACGCTTTTGGAAATTTGAACAG	2775
Db	2515	CCCTTTGGCGCGGTGCTTGGCCAGTGAATTTGAAGCAGATGCCCTTTGGAAATTTGACAG	2574
Qy	2776	ACAGCGACTTGCAGAAACATGAGCGTCAAGATGTTGAAGAAAGAGACCAACACAGCGAG	2835

Db 2575 ACAGCACTTGCAGGACGATGACGTCMAAATGTTGAAGAGCAACACACTGAG 2634
Qy 2836 CATCGAGCCCTCATGTCTGAACCTCAAGATCTCATCCATCTGATGATG 2895
Db 2635 CATCGAGCTCTCATGTCTGAACCTCAAGATCTCATCCATCTGATGATG 2694
Qy 2896 GTGAACCTCTTGGCCCTGACCAAGCCGGAGGSCCTTCATGATGATGATG 2955
Db 2695 GTCAACCTTCTAGTGTCTGATCAAGCCAGGAGGSCCACTAGTGTGATGATG 2754
Qy 2956 TGCAGTTTGAACCTATCACTTACTTACCGGGGAGAGAAATGATTTGTCCTAT 3015
Db 2755 TCCAAATTTGAACCTGTCTCACTTACTGAGAGAGAGAAATGATTTGTCCTATC 2814
Qy 3016 AAGAGCAAGGGGAGCAAGCTTCCGCGCAGGCAAGGACTAGCTTGGAGGCTCCGTAAT 3075
Db 2815 AAGAGCAAGGGGAGCAAGCTTCCGCGCAGGCAAGGACTAGCTTGGAGGACTCCGTAAT 2874
Qy 3076 CTGAAGAAAGCGCTTGGAGCAGCATCACAGCAGCAGAGCTTGGCAGCTCAGGCTTTGTT 3135
Db 2875 CTGAAGAAAGCGCTTGGAGCAGCATCACAGCAGCAGAGCTCAGCAGCTCTGGATTTGTTG 2934
Qy 3136 GAGGAGAAATCGCTCAGTATGTATGAGAGAGAAAGAACTTTGAGAACTGTATCAAGAC 3195
Db 2935 GAGGAGAAATCGCTCAGTATGTATGAGAGAGAAAGAACTTTGAGAACTGTATCAAGAC 2994
Qy 3196 TTCTGACCTTGGAGCATCTCATCTGTATCAGCTTCCAGTCTTAAGGGAGTTC 3255
Db 2995 TTCTGACCTTGGAGCATCTCATCTGTATCAGCTTCCAGTCTTAAGGGAGTTC 3054
Qy 3256 TTGGCATCAAGAGAGTATCCACAGAGGAGCTGGGAGCAGAGAACTTCTCTATCGAG 3315
Db 3055 TTGGCATCGCGAAAGTATCCACAGAGGAGCTGGGAGCAGAGAACTTCTCTATCGAG 3114
Qy 3316 AAGAAATGTGTAAATCTGTGATCTTGGCTTGGCCCGGAGCAATTTATTAACCCGAT 3375
Db 3115 AAGAAATGTGTAAATCTGTGATCTTGGCTTGGCCCGGAGCAATTTATTAACCCGAT 3174
Qy 3376 TATGTCAAGAAAGAGATGCCCGGAGCTCCCTTGAAGTGAAGCCCGGAAACCAATTTT 3435
Db 3175 TATGTCAAGAAAGAGATGCCCGGAGCTCCCTTGAAGTGAAGCCCGGAAACCAATTTT 3234
Qy 3436 GACAGAGTATACAAATTCAGAGCAGATGTGTGTCTTTCGATGTGTGCTCTGGAGAAAT 3495
Db 3235 GACAGAGTATACAAATTCAGAGTGAAGTGTGTCTTTCGATGTGTGCTCTGGAGAAAT 3294
Qy 3496 TTTTCTTAAAGTGTCTCCCATACCTTGGGGTCAAGATTTGAAGAAATTTGTGAGAGA 3555
Db 3295 TTTTCTTAAAGTGTCTCCCATACCTTGGGGTCAAGATTTGAAGAAATTTGTGAGAGA 3354
Qy 3556 TTGAAGAGAGAACTAGATGGGGGCTCTGACTACACTACCCCAAGAAATGTATCAAGACC 3615
Db 3355 TTGAAGAGAGAACTAGATGGGGGCTCTGACTATACACTACCAAGAAATGTATCAAGACC 3414
Qy 3616 ATGCTGAGCTGTGAGCAGAGAGCCCAACAGAGACCTCGTTTTCAGAGTGTGTGAG 3675
Db 3415 ATGCTGAGCTGTGAGCAGAGAGCCCAAGTCAAGAACCAAGCTTTTCAGAGTGTGTGAG 3474
Qy 3676 CATTTGGAGAACTCTCTGCAAGCAATGCGCAGCAGATGCGCAAGAGCTATATTTGTTT 3735
Db 3475 CATTTGGAGAACTCTCTGCAAGCTATGCTCAGCAGATGCGCAAGAGCTATATTTGTTT 3534
Qy 3736 CCAATGTGAGAGACTGAGCACTGAGAGAGATTTGAGACTCTCCCTGCTTACCTCACT 3795
Db 3535 CCGATATAGAGACTTTGAGCACTGAGAGAGATTTGAGACTCTCTCTGCTTACCTCACT 3594
Qy 3796 GTTTCCTGTATGAGAGAGAGAGAGTGTGCGACCCCAATTCATTTATGACAACACAGCA 3855
Db 3595 GTTTCCTGTATGAGAGAGAGAGAGATGTGAGACCCCAATTTCACTTATGACAACACAGCA 3654
Qy 3856 GGAATCAGTCAATATCTCCAGAAACAGTAAGCGAAAGAGCCGCGCAGTGAAGTATAAACA 3915
Db 3655 GGAATCAGTCAATATCTCCAGAAACAGTAAGCGAAAGAGCCGCGCAGTGAAGTATAAACA 3714

Qy 3916 TTTGAAGATATCCATTGGAGAGAACAGAAAGTAAAAAGTATCCAGATGACAGCCAGACA 3975
Db 3715 TTTGAAGATATCCCGTTAGAGAGAACAGAAAGTAAAAAGTATCCAGATGACAGCCAGAG 3774
Qy 3976 GACAGTGGATGTCTCTTGCATCAGAAAGCTGAAAACCTCTGAGAGACAGAAACAATTA 4035
Db 3775 GACAGTGGATGTCTCTTGCCTCAGAAAGCTGAAAACCTTTGAGAGACAGAAACAATTA 3834
Qy 4036 TCTCCATCTTTTGTGTGAGAAATGATGCCCAATTAACAGAGGAGATCTGTGCTTCGAAAGC 4095
Db 3835 TCTCCATCTTTTGTGTGAGAAATGATGCCCAATTAACAGAGGAGATCTGTGCTTCGAAAGC 3894
Qy 4096 TCCAAACAGACAGCAGTGTGAGTATCCAGTCTGATGATGACAGACAGACCCGTA 4155
Db 3895 TCCAAACAGACAGCAGTGTGAGTATCCAGTCTGATGATGACAGACAGACCCGTA 3954
Qy 4156 TACTCCAGCGAGAGAGAGACCTTTTAAAGATGTGATGTGCACTTCAGCTG 4210
Db 3955 TACTCCAGTGAAGAGAGAGACCTTTTAAAGTGAATGATGATGAGTGAAGTGAACCG 4009

RESULT 5
US-10-995-561-388
; Sequence 388, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CLO01559
; CURRENT APPLICATION NUMBER: US/10/995,561
; NUMBER OF FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 388
; LENGTH: 5050
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-388

Query Match 53.9%; Score 2907.4; DB 7; Length 5050;
Best Local Similarity 75.9%; Pred. No. 0;
Matches 3306; Conservative 12; Mismatches 873; Indels 352; Gaps 13;

Qy 14 CCGGATTAACCTGTGAGTGAACCGGATTCGCGGAGACACCGCTGACGCGCGCTGAGCCAGAG 73
Db 104 CTGATATCTCTCTCTTACCGGACCCGCAAGCCCTGACAGCCGCGCGCTGAGCCGCGCG 163
Qy 74 CGCGGATGCCCGCGCTTCTCCCGGATCTTGGCGCTGCGGGGCGC-----ATACCGCTCTG 128
Db 164 CTCCCTTACCCCTGTGCGCTCAACTGTCTGCGCTGCGGGGCTGCGCGAGTTCCACTCG 223
Qy 129 TGACTTTTTCGCGGCGAGGACCGGAGAGAGAGTGTGCTGAGAGAACTGGGCTCTG 188
Db 224 CGCTCTCTTCTTACAGCAGCGCGCTGAGAGAAAGACCGGCTCCGAGTTCTGGGCAATTT 283
Qy 189 CCGAGCGCGAGTGTGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 248
Db 284 GCCCGGCTCGAGGTCAG 343
Qy 249 CGTGAAGACCGGAGCGCGCTCTGTGGGTTTGACTGGGCAATTTTCTCAATCCCGCAAGCT 308
Db 344 CGTGAAGACCGGAGCGCGCTCTGTGGGTTTCTAGTGTCTTGAATCTGCGCAGGCT 403
Qy 309 CAGCAGCAGAAAGCATACTGACAAATTTGCAAAATGCAACCTTCAGATTAATCTTGAG 368
Db 404 CAGCATACAAAAGACATACTTAATTAAGGCTTAATCACTTTCAAAATTAATCTTGAG 463
Qy 369 GGAACAGCGGAGCTGAGCTGAGCTTGTGGCCCAATGCTCAGCGTATCTGAGAAAGGAT 428
Db 464 GGAACAGCGGAGCTTGTGAGCTGAGCTTGTGGCCCAATTAATGAGAGTGGAGTGAAGAGGAT 523

QY	429	ATTGGTGA	CTGAA	TATGGGGGGGGTGGTACAGATATCTTCTGCAAAA	CACTACCA	TTCCAG	488	
Db	524	GGAGGTGA	CTGTGGTGA	GCGGATG-----GCCCTCTCTGTAA	CACTACA	TTCCAA	577	
QY	489	GGTGGTTGA	AAATGATAC	TGAGACCTCAACAAGTCTGTACCGGGA	GGTGA	CTACCTC	548	
Db	578	AGTGA	TCGGA	AAATGACACTGGAGCCCTCAAGAGTCTTACCGGGAA	ACTGAT	TGGGCTC	637	
QY	549	CAC	TGTTATG	TCATATGTTGAGATTACAGATCACATTCATG	CCTCTGTCA	GTGACA	608	
Db	638	GGTCA	TTATATG	CTATAGTTCAAGATTACAGATCTCATTTATG	CTCTGTG	TATGACCA	697	
QY	609	GCATGG	CACTG	GTACATCACCGAGAACAAAGAACAAACGTGGTAT	TCCCGG	AGG	668	
Db	698	ACATG	AGTCCGTGTAC	TACTAGAACAAAACTGTGTATTCATGT	CTCG		757	
QY	669	GTGCA	TTTCAAA	CTTCAATGTGTCTTCTTGGCGTAGATTC	CAAAAAG	ATTTGTTCC	728	
Db	758	GTCCAT	TTTCAATCTCA	CGTGTCACTTTGTGCAATCATCCGAAAA	AGAGATTTG	TGTTCC	817	
QY	729	GGATG	GA	AAACAAATTTCTGTGGACAGCGAGATAGGCTT	ACTCTCCCA	GTATCACTGAT	788	
Db	818	TGATG	TAACA	CAAAATTTCTGTGGACAGCAAGAGGCTTTAC	TATTCACAG	CTACATGAT	877	
QY	789	CAGCTAT	GCCGCA	CTGCTTCTGTAGGCAAAAGATCAATGATGA	AACTATCA	GTCTAT	848	
Db	878	CAGCTAT	GCTGCA	TGCTCTGTGTAGCAAAATTAATGATGA	AAAGTTACCA	GTCTAT	937	
QY	849	CATGTA	CATAGTTGTG	GTGTAGATATAGATTTATGATGTG	ATTTGAC	CCCCCGCA	908	
Db	938	TATGTA	CAATAGTTGTG	TGTGTAGGATATAGATTTATGATGTG	TTCTGTG	TCGCTCA	997	
QY	909	TGAAT	TTGAGCTAT	CGCCGAGAAAACTGTCTTAATTTGAC	AGCGAA	CAGAGCT	968	
Db	998	TGGAAT	TGA	CTATCTGTGGAAAAAGCTTGCTTAAATTTG	ACAGCAAGAA	CTGA	105	
QY	969	CAATGT	GGGGCTTGA	TTTCACTGGCACTCTCCACTTC	CAAAAGTCTCAT	ATAGAAGAT	102	
Db	1058	AAATGT	GGGAGTTGA	CTTCACTGGGAATACCTTCTTG	AGCATCAGCA	TAAAGAACT	111	
QY	1029	TGTAA	ACCGGAGTGTGA	AACTCTTCTGTGGACTGTGGGGA	AGATGTTTTG	AGCACTT	108	
Db	1118	TGTAA	ACCGAGACTTAA	AAACCAAGTGTGGAGTGTGA	AAAAATTTT	TGACACTT	117	
QY	1089	GACAA	TAGAAATGTG	ACCAAGTATACCAAGGGGAATAC	CTGTGTAG	CGTCCAGTG	114	
Db	1178	AACTA	TATAGTGTAT	TAAACCGGAGTACCAAGATTTGTAC	ACTGTG	AGCACTCAGTG	123	
QY	1149	ACGAT	GATCA	AGAAATGAAACATTTGTCCGAGTTCA	CAAAAGCCTTTA	TGTGCTT	120	
Db	1238	GCTGT	ATGACCA	AGAGAACAGACATTTGTACGGGTCTCAT	GTAAAAA	CTTTGTGCTT	129	
QY	1209	CGGT	GTGGAGTGA	AACTTTGGTGAACCAACAGTGGGCA	GTCAAGTCCGA	TCCCTGT	126	
Db	1298	TGAA	AGTGGCA	TGGAATCTCTGTGTGAAGCA	CGTGTGGGAGCGTGTCA	RAATCCCTGC	135	
QY	1269	GAA	GATATCTCA	GTACCCAGCTCTGTATTCAAATGTG	TACAGAAATGAA	AGGCCCATTA	132	
Db	1358	GAA	GATACCTTGTG	TTACCCACCCCAAGAAATTAATG	GTATTAATAAATG	GAATACCTCTTG	141	
QY	1329	GTCCA	ACTACAA	TGATTTGTGGCATGAACTCACCA	TCTGTGAAGTGA	CTGAAGAGA	138	
Db	1418	GTCCA	ATCA	CAAAATTTAAAGCGGGGATGTATCTGA	GAATTAAGAA	GTGTAAAGAA	147	
QY	1389	TGCAG	AAACTAC	CGGTATCTTCA	CAAAACCCATTTCAATGTGA	AGAAACAGAGCCACAT	144	
Db	1478	CACAG	AAATTA	CTA	CTGTATCTTTACAAATCCCATTTCA	AGAGAACAGAGCCATGT	153	
QY	1449	GGTCT	CTCTG	TTGTGAATGTCCACCCCA	GATCGGTGA	AGAAAGCCTTGA	TTCTGCTAT	150
Db	1538	GGTCT	CTCTG	TTGTGTATGTCCACCCCA	GATGGTGA	AAATCTCTATCTCTGTG	159	

QY	1509	GGATTTCCTACCAAGTATGGGACCACTGACAGCACTTGAATGCAACATGTACACGCAACCCCTCC	1508
Db	1588	GGATTTCCTACCAAGTACGGCACCACTCAAAAGCCTGACATGTAAGGTCTATATGCAATTCCTCC	1587
QY	1569	CCTGCACCAACATCCAGTGTACTGTGACAGCTGTGAAGAAAGCCGTCTCTACACACCCGCGCA	1568
Db	1658	CCCGCATACATCCACTGTGATTGTGGCACTTGGAGGAAAGATGTGCCCAACGACCACGCCA	1717
QY	1629	A-----ACAAAGCCCGTATGCTTGTAAAGATGAGAGACAGTGGAGATTTCCA	1676
Db	1718	WGTGTCTCAGTGTACAAACCCATCCCTGTGGAAGAAATGAGAAATGTGGAGAGACTTCCA	1777
QY	1677	GGGGGGAAACAAGATCCAAATGCCAABAAAACCAATATGCCCTGTATTTGAAGGAAAAAACA	1736
Db	1778	GGGAGGAATTAATAATTGAATTTATTAATAATTCMAATTTGCTCTAATTTGAAGGAAAAAACA	1837
QY	1737	AACGTAAATGATAGCGTGTGATCCCAAGCTGCACACGCTCAGCGTGTATCAATATGTGAAGC	1796
Db	1838	AACTGTAAATGATCCTTGTATTCGAAGCGGCAAAATGTGTACCTTTGTACAAATGTGAAGC	1897
QY	1797	CATCAACAAAGCGGAGACGAGGAGAGAGGTCATCTCCTTCATGTATGATCAGGGGTCTGA	1856
Db	1898	GATCAACAAATTCGGAGAGAGAGAGAGGATGATCTCTTCACAGTGAACAGGGGTCTGA	1957
QY	1857	AATTACTGTGAACCTGTGCTGCCAGCCCACTGACAGAGAGATGTATCCTCTGTGTGAC	1916
Db	1958	AAATTAATTGTGAACCTGTGACATGACAGCCCACTGAACAGAGAGAGCGTGTCTTGTGTGAC	2017
QY	1917	TGCAGACAGAAATATGTTTGAAGACCTCACGTGTGAACAGTTGTGGTCTCACAGGCAATC	1976
Db	2018	TGCAGACAGATCTACGTTTGAAGACCTCACATGTGTAACAGTTGTGGTCTCACAGGCTCTGC	2077
QY	1977	GATCCACATGGGCGAATATCATCACACCAAGTTGCAAGAACTTGTGATGCTCTTGGAACT	2036
Db	2078	AATCATGTGGAGAGATTTGCCACACCGTGTGCAAGAACTTGTGAATCTCTTGGAAAT	2137
QY	2037	GAATGGCAACATGTTTTCTAAACAGACAAATGACATCTTGAATGTGGCATTTCAAGATGC	2096
Db	2138	GAATGGCACCATGTTCTCTAATATACCAAAATGACATTTGTATCATGTGAGCTTAAAGAAATGC	2197
QY	2097	CTCTCTGAGAGACCAAGGCGCATATATGTTGTCTGCTCAAGATTAAGAAACCAAGAAAG	2156
Db	2198	ATCTCTGAGAGACCAAGGAGACATATATGCTGTCTGTCTCAAGACAGAAAGACCAAGAAAG	2257
QY	2157	ACATTGCTGTGTCAAAACAGCTCATCTATCTTGAAGCGGATGGCACCCATGATCACCGGAAA	2216
Db	2258	ACATTGCTGTGTCAAGGAGCTCACAGTCTTAAGACGTGTGGCACCCACAGATCACAGGAAA	2317
QY	2217	TCTGGAGATCAGAACAAACACATTTGGCGAGACCATTTGAAGTACTTCCAGCATCTGG	2276
Db	2318	CCTGGAGATCAGACGACAAAGTATTTGGGGAAAGCATCGAAGTCTCATGCAAGGATCTGG	2377
QY	2277	AAATTCCTAACCCCAACATTAATCATATGTTCTAAAGAACAGAGACCCCTGTGAAGAAATTCAG	2336
Db	2378	GAATTCCTCCCTCAACAGATCATGTGTTTAAAGATTAAGACCCCTGTGAAGAACTCAGG	2437
QY	2337	CATTGTACTGAGATGGGAAACCGGAAACCTGACATATCGACAGGTGTGAAGAAAGAGATGG	2396
Db	2438	CATTGTATTGAAGATGGGAAACCGGAAACCTCATATCCGCAAGATGTGAAGAAAGAGAGAGA	2497
QY	2397	AGGCTCTTACACTGCAAGCGGCTGCAATATGTCCTTGGCTGTGCAAGAGCGAGACGCTTT	2456
Db	2498	AGGCTCTTACACTGCAAGCGGCTGCAAGTATCTTGGCTGTGCAAAAGTGAGGCACTTTT	2557
QY	2457	CATTAATGAAGGTGCCAGAAAAGACCACTTGAAGTCAATATCTCTGTGCGCATCTGC	2516
Db	2558	CATTAATGAAGGTGCCAGAAAAGAGAACTTGAAGTCAATATCTTGAAGTGAAGCAACRC	2617
QY	2517	AGTATTTGCAATGTTCTTGGGCTCTTCTTGTGATATGTCCTTACAGGACCGTTAAGCGGCG	2576
Db	2618	GGTATTTGCAATGTTCTTGGGCTCTTCTTGTGATATGTCCTTACAGGACCGTTAAGCGGCG	2677
QY	2577	CAATGAAGGGGAACTGAAGACAGGCTACTTGTCTAATGTCAATGATCCAGATGAATGCC	2636

Db 2678 CAATGAGGGGAACTGAGACAGGCTACTTGTCCATGCTCATGATCCAGATGAACTCC 2737
Qy 2637 CTTGATGAGCCCTGGAACGCTGCTTATATGATGACAGAACTGGGAATTCCTCCAGGA 2696
Db 2738 ATTGATGAACTTGTGAAGCACTGCTTATATGATGACAGAACTGGGAATTCCTCCAGGA 2797
Qy 2697 CCGGCTGAACATAGAGAAACCTCTTGCGCGCGGTGCTTCGGCGAAGTATGAGGCAGA 2756
Db 2798 CCGGCTGAAGCTAGGTAACCTCTTGCGCGGTGCTTCGGCGAAGTATGAGGCAGA 2857
Qy 2757 CGCTTTGGAATTGACAGACAGCGACTTGCAGAACAGTAGACCGTCAAGATGTTGAAGA 2816
Db 2858 TGCCTTTGGAATTGACAGACAGCAACTTGACAGACAGTAGACCAAAATGTTGAAGA 2917
Qy 2817 AGGACGAACACACAGGACATCGAGCCCTCATGTGTGAATCAAGATCCTCATCCACT 2876
Db 2918 AGGACGAACACACAGGACATCGAGCTCATGTGTGAATCAAGATCCTCATCATAT 2977
Qy 2877 TGGTCAACATCTCAATGTGTGAACCTCTAGCGCGCTGCACCAAGCCGGAGGGCTCT 2936
Db 2978 TGGTCAACATCTCAATGTGTGAACCTCTAGGTGCTGTACCAAGCCGGAGGGCTCT 3037
Qy 2937 CATGATGATTTGGAATTTCTGCAAGTTTGAACCTTATCACTTAACGGGCGAAGAG 2996
Db 3038 CATGATGATTTGGAATTTCTGCAAAATTTGGAACCTGTCACTTAACGGAGGCAAGAG 3097
Qy 2997 AAATGAATTTTGTCCCTTAATGAAGCAAGGGGCAAGCTTCGGCGAGGCAAGACTACGT 3056
Db 3098 AAATGAATTTTGTCCCTTAACAG----- 3119
Qy 3057 TGGGAGCTCTCGTGTGATCTGAAAAGACGTTTGAACAGCATCACAGAGCCAGAGCTC 3116
Db 3120 ----- 3119
Qy 3117 TGCAGCTCAGGCTTTGTTGAGAGAAATCGCTCAGTAGTAGAGAGAAAGACTTC 3176
Db 3120 -----GTATCTCC 3127
Qy 3117 TGAAGACCTGACAGAGACTTCTGACCTTGAAGCATCTCATCTGTATACAGTTTCCAACT 3236
Db 3128 TGAAGATCTGTATGAAGACTTCTGACCTTGAAGCATCTCATCTGTATACAGTTTCCAACT 3187
Qy 3237 GCGTAAGGAGCATGAGTCTTGGCATCAAGAAAGTATCCACAGGAGACTTGGCGAGCG 3296
Db 3188 GCGTAAGGAGCATGAGTCTTGGCATCCGGAAGTATCCACAGGAGACTTGGCGAGCG 3247
Qy 3297 AAACATTTCTCTATCGAGAGAAATGTGTGAATCTGTGACTTCGGCTTGGCGAGGA 3356
Db 3248 AAATATCTCTTATCGAGAGAAAGCTGTGTGAATCTGTGACTTTCGGCTTGGCGAGGA 3307
Qy 3357 CATTTATGAAGACCCGGATATATGTCAAGAAAGAAATGCGGACTTCTTGAAGTGAAT 3416
Db 3308 TATTTATGAAGATCGAGATATATGTCAAGAAAGAAATGCTGCTCTCTTGAAGATGAAT 3367
Qy 3417 GGGCCCGGAAACATTTTGAAGAGATATCAATTCAGAGCGATGTGTGCTTTCGG 3476
Db 3368 GGGCCCGGAAACATTTTGAAGAGTATCAATTCAGAGTGAAGTGTGCTTTCGG 3427
Qy 3477 TGTGTGCTCTGGAATATTTTCTTGAAGTCTCCCATACCTTGGGGTCAAGATTGA 3536
Db 3428 TGTGTGCTGAGAAATATTTTCTTGAAGTCTTCCATATCTTGGGGTAAAGATTGA 3487
Qy 3537 TGAAGAAATTTTGAAGAGATTTGAAGAGAACTTGAATGCGGGTCTTGAATCACTAC 3596
Db 3488 TGAAGAAATTTTGAAGAGATTTGAAGAGAACTTGAATGAGGGCCCTGTATTAATACAC 3547
Qy 3597 CCCAGAAATGTACAGACCATGTGAGCTGTGAGATGAGACCCCAACAGAGACCTTC 3656
Db 3548 ACCAGAAATGTACAGACCATGTGAGCTGTGAGACGGGAGCCCACTCAGAGACCCAC 3607
Qy 3657 GTTTTCAGAGTTGTGAGCATTTTGGAAACCTCTCTGACAGCAATGCGCAGAGATGG 3716
|||||

Db 3608 GTTTTCAGAGTTGTGAGAACTTTGGAAATCTCTTGAAGCTAATGTCTCAGAGAGATGG 3667
Qy 3717 CAAGAATATATTTGTTCTTCAATGTCAAGACACTGAGCATGGAAGAGATTTGAGAT 3776
Db 3668 CAAGAATATATTTGTTCTTCCATATCAAGACTTGAAGCATGGAAGAGATTTGAGAT 3727
Qy 3777 CTCCTGCTCACTCAACCTGTTTCCGTATGAGAGAAAGAGTGTGCAATCCCAAT 3836
Db 3728 CTCCTGCTCACTCAACCTGTTTCCGTATGAGAGAGAGAGATGTGTGATCCCAAT 3787
Qy 3837 CCATTATGACACACAGCAGAAATCATATATCTCAAGAACATTAACGAAAGAGCCG 3896
Db 3788 CCATTATGACACACAGCAGAAATCATATATCTCAAGAACATTAACGAAAGAGCCG 3847
Qy 3897 GCCAGTGAATGTAATTAATTTGAAGATATCCATTGGAAGAAACCAAGATTAAGTAT 3956
Db 3848 GCCAGTGAATGTAATTAATTTGAAGATATCCGTTGAAGAAACCAAGATTAAGTAT 3907
Qy 3957 CCCAGATGACAGCCAGACAGACAGTGGGATGCTCTGATCAGAGCTGAAACCTCT 4016
Db 3908 CCCAGATGACACACAGCAGAGAGTGTATGCTTCTGCTCAAGAGCTGAAACCTT 3967
Qy 4017 GGAAGACAGAAACAAATTAATCTCATCTTTTGTGAATGATCCAGTAAAGAGAGGA 4076
Db 3968 GGAAGACAGAAACAAATTAATCTCATCTTTTGTGAATGATGCCAGAAAGAGAGGA 4027
Qy 4077 GTCTGTGCTCTGGAAGGCTCCATCAGACCATGTGCTTACAGTGTGGTATCATCTCAG 4136
Db 4028 GTCTGTGCTCTGGAAGGCTCAACAGACAGCGCTACAGTCCGATATCATCTCCA 4087
Qy 4137 TGACAGACACACACGCTGTACTCCAGCGACAGAGCAGACTTTTAAAGATGTGGAATGC 4196
Db 4088 TGACAGACACACACGCTGTACTCCAGTGAAGAGACAGAACTTTTAAAGCTATGAGAT 4147
Qy 4197 TGCAG-----TTCACGCTGACTCAGGAGCCACACTGC 4229
Db 4148 TGAAGTGAACACAGGTAGACACAGCCAGATTTCTCAGCTGTGACGAGGAGCCACTGAG 4207
Qy 4230 CTCACCTCTGTTTAAAGAGATGCTCTGCTCCGCTCCGCCCCCAATCTCTGGAAT 4289
Db 4208 CTCCTCTCTGTTTAAAGAG-----CATCAACCCCCCACTCCYGAACAT 4256
Qy 4290 CACGAGAGGCTGCTTAAGATTTTCAAGTGTGTTCTTTCCACACCCGGAATGAGC 4349
Db 4257 CACATGAAGGCTGCTCAAGTTTSAAGTGTGTTCTTTCCACACAGAGATGAGC 4316
Qy 4350 ACATTTGAATTTCAATTTTGAAGAGGAGCTCAGACTGCAAGACTTGTCTCAGGAGC 4409
Db 4317 GCATTTGAATTTCAATTTGCAAGACA--ACAAAGACGTTCAAGAAATGGCCCATCTCTC 4373
Qy 4410 ATTCCAGAGAGATGCCATGACCCAGAAATGTGTGACTCTCTTTTCCATTTCA 4469
Db 4374 AAAGAGTAGAGTACCTGAGGAGTGAACACTTGTGAACCTGAAGATTAACAGAGCA 4433
Qy 4470 TTTAAAGTCTTATATATATGTGCTGTGTGTCTCATCAAGTTTAAAGAAAGACT 4529
Db 4434 ATGTA----- 4438
Qy 4530 TTCAAAACAGTGACTCTGCTCCAGAGAGTGGCAACGCACTGTGAAACTGATC 4589
Db 4439 ----- 4438
Qy 4580 GAATGGGCAATGCTTTGTGTGTGAGAGTGGGTGAGATGTCCAGGGCCGAGTCTGTCTA 4649
Db 4439 -----AGTGTGAGGTGTGAAGATGGAAAGATTTCAAGG-----CTGAGTCTA 4485
Qy 4650 CTTTGAAGCTTTTGAAGATGCGGCTATG-AGCAAGTGTTAAGTGTGAGATGTGAGC 4708
Db 4486 TCCAAGAGGCTTTGTTTGAAGAGTGGGTCCAAAGCCAAAGCTTTAAGTGTGAATTCGAT 4545
Qy 4709 TGGAGGAAGAGCGGCAAG-----TGCCTGGAAGACGGTTGAGGCTTGCAGATGAT 4763
Db 4546 TGATGAAGAAAGAGACTTAACGTTACCTTGTGAAGATGCTGAGAGCTGCAATATGAT 4605
|||||

Qy 4764 TGTGCTGCTCTGTGTGAGGTGGGCTTGTGCTGTGACGAAACCGAAAGCGGCGGCA 4823
 Db 4606 TGTGTTTCTCTGTGTGAGGTGGGCTTGTGCTGTGACGAAATGTAAAGGTTTCAGACG 4665
 Qy 4824 GGGTTTGGTTTGTGAGGTTTGGGCTTGTGCTGTGACGAGTGTACAGGCGATTTCCCTGT 4883
 Db 4666 GGGTTTGTGTTTGTGAGGTTTGGGCTTGTGCTGTGACGAGTGTAAAGTGTGCTGTGT 4725
 Qy 4884 GGGCTTCTCTCTCTGTGTGAGGTTTGTGCTGTGACGAGTGTGTCTGTGCTGTGCTG 4943
 Db 4726 GCTGTTTGTGCTCTCTGTGTGAGGTTTGTGCTGTGACGAGTGTGTCTGTGCTGTG 4785
 Qy 4944 CCAAGAGGAAATGTGAGGTTTGTGCTGTGACGAGTGTGTCTGTGCTGTGCTGTG 5003
 Db 4786 CCAAGAGGAAATGTGAGGTTTGTGCTGTGACGAGTGTGTCTGTGCTGTGCTGTG 4843
 Qy 5004 AACACCAAAAGAGGAAAGT--CGGACAGGCTTCTGTACGCGGCGGCAAAATGTGTGA 5061
 Db 4844 AATACCAAAAGAGGAAAGTCAATTCAGCTCAAGGCTTCTGTGAGGTTGTGACT 4903
 Qy 5062 ACAGAACAGAACTCAGGCTTGTGCTGTGAGGAGCCAGT 5104
 Db 4904 GCACAAACGAGCTTGTGCTGTGCTGTGAGGAGTCAAT 4946

RESULT 6
 US-11-136-527-3313
 ; Sequence 3313, Application US/11136527
 ; Publication No. US20050287570A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wyeth
 ; APPLICANT: Mount, William M
 ; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
 ; FILE REFERENCE: 031896-041000 (AM101086)
 ; CURRENT APPLICATION NUMBER: US/11/136,527
 ; CURRENT FILING DATE: 2005-05-25
 ; PRIOR APPLICATION NUMBER: US 60/574,294
 ; PRIOR FILING DATE: 2005-05-26
 ; NUMBER OF SEQ ID NOS: 362830
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 3313
 ; LENGTH: 4016
 ; TYPE: DNA
 ; ORGANISM: Rattus norvegicus
 US-11-136-527-3313

Query Match 50.5%; Score 2720.8; DB 8; Length 4016;
 Best Local Similarity 90.9%; Pred. No. 0;
 Matches 2917; Conservative 18; Mismatches 245; Indels 30; Gaps 3;
 Qy 14 CCGGATAACTGTGATCCGATTCGCGGACACCGCTGACGCGCGCTGAGCGAGG 73
 Db 77 CGGATAACTCTTCTGTGACAGCTGTGCGCGACACGCTGCAACCGCGCTGAGCGAGG 136
 Qy 74 CGCGGTGCCCCGCGCTCTCCCGGTCTTGTGCTGTGCGGCGGCGC-CATACCGCTCTGTGAC 132
 Db 137 CGCGGTGCCCCGCGCTCTTCCAGGTGTGTGCACTGCAAGACGCTTACCGCTCTGTGAC 196
 Qy 133 TTTCTTTGGGGCGAGGCGAGAAAGATGCTGTGCTGTGAGAACTGGGCTGTGCGCA 192
 Db 197 TTTCTTTGGGGCGAGGCGAGAAAGATGCTGTGCTGTGAGAACTGGGCTGTGCGCA 233
 Qy 193 GCGCGAGGTGCAAGATGAGAGCAAGCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 252
 Db 234 AGCGGAGGTGCAAGATGAGAGCAAGCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 293
 Qy 253 GAGACCGGAGCGCTCTGTGAGTTTGACTGCGATTTTCTCATCCGCCCAAGCTGAC 312
 Db 294 GAGACCGGAGCGCTCTGTGAGTTTGTGCTGCGATTTCTCATCCCAAGCTGAC 353
 Qy 313 ACAGAGAAAGATGTGCAATTTTGGCAATTAACCTTTCAGTTTATTTGAGGAGG 372

Db 354 ACACAAAAGACATATCTTACATTTTGGCAAAATCAACCTTCAAGTTATCTTGACGGGCA 413
 Qy 373 CAGCGGACCTGAGCTGCTTTTGGCCCAATGCTCAGCGGTGATTTGTGAGAAAGGATATG 432
 Db 414 CAGAGGACCTGAGTTGGCTTTTGGCCCAACCTCGGCTGATCTTGAGGAAAGGATGTG 473
 Qy 433 GTGATGATGCGCGGTGTGACATATCTTGTGCAAAACATCTCACCATTCCAGGATG 492
 Db 474 GTGATGATG-----GTGCGACAGTATCTTGTGCAAGACATCTCACCAGTCCAGATG 527
 Qy 493 GTTGAATGATGATGAGGCTTCAAGATGCTGACCGGAGCGTGCATGAGCTCCACT 552
 Db 528 GTTGAATGATGATGAGGCTTCAAGATGCTTCTGTGAGACAGATGCTCTCTCCATC 587
 Qy 553 GTTATGCTATGTTTGCAGATTAAGATCAACATTCATCGCTGTGATGACAGCAT 612
 Db 588 GTTATGCTATGTTTCAAGATCAAGATCAACATTCATCGCTGTGATGAGAGCAT 647
 Qy 613 GGCATGCTGATCATCACCGAACAAGACAAACCTGTGTATCCCTGCGAGGATG 672
 Db 648 GGCATGCTGATCATCACCGAACAAGACAAACCTGTGTATCCATGCGAGGATG 707
 Qy 673 ATTTCAACCTCAATGCTCTTTTGGCTTGTGATGATGCAAGAAAGATTTGTTCCGAT 732
 Db 708 ATTTCAACCTCAACGATGCTCTTTGTGTGATGATGCAAGAAAGATTTGTTCCGAT 767
 Qy 733 GAAACAGAAATTTCTGCGGACAGGAGATAGCTTTACTCTCCAGTTATCATGATCAGC 792
 Db 768 GAAACAGAAATTTCTGCGGACAGGAGATAGCTTTACTCTCCAGTTATCATGATCAGC 827
 Qy 793 TATGCGGATGCTCTTCTGTGAGGCAAAAGATCAATGATGAAACCTTCACTATCATG 852
 Db 828 TATGCGGATGCTCTTCTGTGAGGCAAAAGATCAATGATGAAAGTATCATCATCATG 887
 Qy 853 TACATGCTGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 912
 Db 888 TACATGCTGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 947
 Qy 913 ATTGAGCTATCTGCGGAGAAACCTTGTCTTAATTTGTACAGGAGAACAGACTCAT 972
 Db 948 ATTGAGCTATCTGCGGAGAAACCTTGTCTTAATTTGTACAGGAGAACAGACTCAT 1007
 Qy 973 GTGAGGCTGATTTTCACTGCGACTCTCCACTTCAAAAGTCTCATTAAGAAATGTA 1032
 Db 1008 GTGAGGCTGATTTTCACTGCGACTCTCCACTTCAAAAGTCTCATTAAGAAATGTA 1067
 Qy 1033 AACCGGATGTAACCTTCTGCGGACTGTGCGAAGATGTTTGTGAGCACTTGTACA 1092
 Db 1068 AACCGGATGTAACCTTCTGCGGACTGTGCGAAGATGTTTGTGAGCACTTGTACC 1127
 Qy 1093 ATAGAAAGTGTGACCAAGATGACCAAGGAAATACCTGTGTAGCGTCCAGTGTGACG 1152
 Db 1128 ATAGAAAGTGTGACCAAGATGACCAAGGAAATACCTGTGTAGCGTCCAGTGTGACG 1187
 Qy 1153 ATGATCAAGAAATTAAGAACTTTGTGCGAGTTTCAACAAAGCTTTTATTTGCTTGGT 1212
 Db 1188 ATGATCAAGAAATTAAGAACTTTGTGCGAGTTTCAACAAAGCTTTTATTTGCTTGGT 1247
 Qy 1213 AGTGGATGAAATTTTGTGGAAGCAAGTGGGAGTCAAGTCCGAATCCGTGTGAAG 1272
 Db 1248 AGTGGATGAAATTTTGTGGAAGCAAGTGGGAGTCAAGTCCGAATCCGTGTGAAG 1307
 Qy 1273 TATCTAGTTAACCGAGCTCTGTATTAATGATGATGATGATGATGATGATGATGATG 1332
 Db 1308 TATCTAGTTAACCGAGCTCTGTATTAATGATGATGATGATGATGATGATGATGATG 1367
 Qy 1333 AACTTACCAATGATTTTGTGCGATGAACCTCATCTATGGAAGTGACTGAAAGATGCA 1392
 Db 1368 AACTTACCAATGATTTGTGATGAACTCATCTATGGAAGTGAAGTGAAGATGCG 1427
 Qy 1393 GAAACCTTACCGGCTCATCTCAACCAACCTTTCATTTGAGGAAAGAGGCAATGATG 1452
 Db 1428 GAAACCTTACCGGCTCATCTCAACCAACCTTTCATTTGAGGAAAGAGGCAATGATG 1487

Best Local Similarity 55.4%; Pred. No. 1.7e-226;	
Matches 1779; Conservative 0; Mismatches 1355; Indels 78; Gaps 12;	
Qy	538 GACATAGCCTCACGTTTATGTCTATGTGAGATTCACAGTCCACATTCATCGCCCT 597
Db	355 GAAACAGATCTGCATCTATATATTTATTTAGTATACAGTAGACCTTGGTAAAGATG 414
Qy	598 GTCAGTGCACAGATGAGTCGTGTACATCACCGAACAAGAACAAACTGTGTGATC 657
Db	415 TACAGTGAATCCCGAATATATACATGACTGAAGAGGA-----GCTGTCATTT 468
Qy	658 CCTTCCGAGGTCGATTTCAAACTCATGTGTCTTTGGCTAGAGTATCCAGAAAG 717
Db	469 CCTGCCCCGGTTACGTCACCTAACATCACTGT---TACTTTAAAAAAGTTTCCACTTGAC 525
Qy	718 AGATTGTTCCGGATGAAACAGAAATTTCTGGGACAGAGATAGGCTTTACTCTCCC 777
Db	526 ACTTTGATCCCTGATGAAAAAGCATTAATCTGGACAGTAAAGAGGCTTCATCATATCA 585
Qy	778 AGTTACATGATCAGCTATGCCGCGCATGCTCTTGTGTGAGCGAAAGATCAATGATGAAC 837
Db	586 AATGCACGTACAAAGAAATAGGCTTCTGACCTGTGAAGCAACATGAGGCAATTTG 645
Qy	838 TATCAGTCTATCATATACATAGTGTGTGTGTAGATATAGGATTTATGATGTGATCTG 897
Db	646 TATAGAGCAAACTATCTCACACATGACA---MACCAATACATCATATGATGTCCAAATA 702
Qy	898 AGCCCCCGCATGAATTTGAGCTATCTGCCGGAAGAAACTGTCTTAATTTGTACACG 957
Db	703 AGCACACACGCCCGCATCAATTACTTAGAGGCCATACCTTTGTCTCATATTTGATCT 762
Qy	958 AGAACAGAGCTCAATGTGGGGCTTGATTTCACTGGCACTCTCACTTCAAAAGTCTCAT 1017
Db	763 ACCACTCCCTTGAACACAGAGATTCAATGACCTGAGTTACCTGATGAAA-----AA 816
Qy	1018 CATAGAAGATTGTAAACCGGATGTGAACCCCTTCTGGGACGTGTGCGCAAGATGTTT 1077
Db	817 AATAGAGAGCTTCGTAAGCGACGAATTTGACAAAGCAATTCCTCATGCCAACATATTC 876
Qy	1078 TTGAGCACCCTTGACAAATAGAAAGTGTGACCAAGATGACCAAGGGGAATACCTGTGTA 1137
Db	877 TACAGTGTCTTACTATTTGACAAATTCAGAAACAAAGACAAAGACCTTTATCTGTGT 936
Qy	1138 GCGCTCAGTGAACGGATGATCAAGAAATAGAACATTTGTCCGATTCACACAAAGCCT 1197
Db	937 GTAAGAGATGGAACCATCATTCATCTGTAAACCTCAGTGCAATATATATGATTAACA 996
Qy	1198 TTTATGTCTTTCGGTAGTGGATGAATCTTTGTGTGAAGCCACAGTGGGCA---GTCAA 1254
Db	997 TTCACTACCTGTGAACATCGAAACAGACAGGTGCTTGAACCGTATGCTGGCAAGCGTCT 1056
Qy	1255 GTCCGAATCCCTGTGAGATATCTCAGTTAACCCAGCTCCTGATATCAATATGTGACGAAT 1314
Db	1057 TACCGGCTCTTATGAAGTAGAAGCAATTTCCCTGCGGAAAGTTATATGTGTAAAGAT 1116
Qy	1315 GG-----AAGGCCCATTTAGTCCAACTACCAATGATTTTGGGATGAATCTCACATC 1368
Db	1117 GGGTTACTCTGCACTGAAGAAATCTGCGTATTTGACTCGTGGCTACTCGTTATATATTC 1176
Qy	1369 ATGAAAGTACTGAAAGATGACAGAAACATACAGGTTCATCTCAACCAACCCATTTTCA 1428
Db	1177 AAGAGCTTAACGTGAAGATGACAGGAATATTAATCTTGCTGAGATTAACACATGCA 1236
Qy	1429 ATGGAAGAACAGAGCATGATGCTCTCTGTGTGATGATGTCCACCCCAAGTCGGTGTAG 1488
Db	1237 AATGTGTTTAAACCTCACTGCACTCTAATTTGCAATGTGAACCCCAAGATTTTACGAA 1296
Qy	1489 AAAGCTTATCTGCGCT-----ATGATTTCTTACAGTATGGAGCCATGCAGCATGTG 1542
Db	1297 AAGGCGGTGATCGTTTCCAGACCCGCGCTCTTACCCACATGGGGACAGACAAATCTCG 1356
Qy	1543 ACATGCAAGCTTACAGCCAACTTCCCTGCAACCACTCACTGATGTACTGGCAGCTAGAA 1602

Db	1357 ACTGTACCGCATATGGTATTCCTTCAACCTAACATCAAGTGTCTGTGCAACCCCTGTAAAC 1416
Qy	1603 GAAGCTGTCTCTTACAGACCCGGGCCAAACAGCCCGTATGCTGTAAAGATGAGACAC 1662
Db	1417 CATATCATTTCCGAAGAGGTGTGACTTTTGTTCATATATGAAGTCTTTATCTCG 1476
Qy	1663 GTGAGGATTTTCAAGGGGGGAAACAAGTGTAGTCAACAAAAACAATATGCTGTAT 1722
Db	1477 GATGCTGACAGCAATGAGGAAACAGAAATGAGAGCATCACTCAGCGCATGCAATATTA 1536
Qy	1723 GAAGAAAAAACAAACTGTATAGTACCGTGTCAATCCAGTGTCCACAGTGTGACGCTTG 1782
Db	1537 GAAGAAAGAAATTAAGATGCTAGCACTGTGTGTGCTGACTTGAATTTCTGGAATC 1596
Qy	1783 TACAAATGTGAAGCATCAACAAAGCGGACGAGAGAGAGGATCATCTCTTCATGTG 1842
Db	1597 TACATTTGCAATGCTTCCAAATTAAGTTGGACGTGTGGAGAAACATTAAGCTTTTATTC 1656
Qy	1843 ATCAGGGGTCC---TGAATTTACTGTGCAACTGTGCTGCCCACTGACAGAGAGT 1899
Db	1657 ACAGATGTGCCAAATGAGGTTTCACTTTAACTTGAAGAAATATGCCGACGAGAGAGAC 1716
Qy	1900 GTGTCCCTGTGTGACATGACAGACAGAAATACGTTTGAAGACCTCACTGTGTACAGCTT 1959
Db	1717 CTGAACGTGTCTTACAGATTAACAGATTTCTTATACAGAGACGTTACTTGAATTTTACTG 1776
Qy	1960 GGCTCACAGGCAACATGCGTCCACATGCGGCAATCACTCACACAGTTTGGACAACTTG 2019
Db	1777 CGGAC-----GTTAATTAACAGAACATGACATGACATTAAGACAGAGAAAA 1824
Qy	2020 GATGCTCTTTGAAAACGTGAATGACCAATGTTTCTTACAGACACAAATGACATCTTGATT 2079
Db	1825 ATGCGCATCACTTAAGGAGCACTCCATCATCTTATCTTACATCA----- 1870
Qy	2080 GTGGCATTTTCAAGATGTGCTCTGTGAGAACCAAGCGCATATGTTGTCTGCTCAAGAT 2139
Db	1871 -----TGAATGTTTCCCTGCAAGATTCAGGACCTATGTGCTGTGAGCCAGAAAT 1920
Qy	2140 AAGAAACCAAGAAACAAATTCGCTGTGTCAACAGCTCATCTATCTAGACCGATGCA 2199
Db	1921 GTATACACAGGGGAAAGAAATCTCTCAGAAAGAAATTAACATCAAGATCAAGAAAGCA 1980
Qy	2200 CCATGATCAACCGGAAATCTGAGAAATCAGCAACAAACATTTGCGGAGACCATTTGAATG 2259
Db	1981 CCATACCTCTCTGCAAACTCAGTATCACACATGTGCATCAACAGTTTCCACACACTTTA 2040
Qy	2260 ACTTCCCGCATGTGGAATTCCTACCCCACTTCACTTATCATGTTCAAGAACAGAGACC 2319
Db	2041 GACTGTCAATGTAAATGTGTCTCCGAGCTCAGATCACTTGTGTTTAAAAACACACAAA 2100
Qy	2320 CTGTGTAAGATTCAGGCAATTTGTACTGAGATGAGGAAACCGGAACCTGACTATCCGACG 2379
Db	2101 ATACAAACAGAGCCTGGAATTTATTTTAGACACAGAAAGCAGCAGCTGTATTAAGAAAG 2160
Qy	2380 GTGAGAAAGAGATGAGGCTTCAACCTGTGCAAGCTGTGAATGTCTTGTGCTGTGCA 2439
Db	2161 GTCAAGAAAGGATGAAAGGTCTATCACTGTGCAAAAGCAACAAACAGAAAGGCTGTGTG 2220
Qy	2440 AGAGCGGAGACGCTCTTCAATATGAAGGTGCCAGGAAAGAACCACTTGAAGTCAAT 2499
Db	2221 GAAGTTTCAGATATCTCACTGTTCANAGAACTCGGACAAAGTCTTAATCTGAGCTGATC 2280
Qy	2500 ATCTGTGCGCACTGACATGATGATTCATGTTCTTGTGCTCTTCTGTGATTTGCTCTTA 2559
Db	2281 ACTTTAATCAATGCACTGTGTGTGCTGCACTCTCTTGTGCTGTCTTAATTAACCTCTTTATC 2340
Qy	2560 CGGACCGTTAAACGGGCAATGAAGGGAACTGAAGACAGCTTCTTATTTGTCAATG 2619
Db	2341 CGAAAAATGAAGAGTCTTCTTC---TGAATTAAGCTGACTCATCAATATATATATG 2397
Qy	2620 GATCAGATGAATGGCTTGTGATGAGGCGTGTGAAGGCTTGTGCTTATGATGCCAGAG 2679
Db	2398 GACCCAGATGAAGTCTTTGTGATGACAGTGTAGCGGCTCCTTATGATGCCAGCAG 2457

QY 2680 TGGGAATCCCGCAGGAGCCGGCTGAATAGGAAAACTCTGGCGCGGCTGCGCTCGC 2739
DB 2458 TGGAGATTGGCCCGGAGAGACTTAATCTGGGCAATCACTTGGAAAGAGGGCTTTTGA 2517
QY 2740 CAGATGATTGAGGACAGCGCTTTTGGAAATGACAGACAGCGACTTGGCAAAACATGAGCC 2799
DB 2518 AAAGTGGTTCAGCATCAGCATTTGGCATTTAAGAAATCACTACGTGCGGACATGTGGCT 2577
QY 2800 GTCAAGATGTTGAAGAAGAGACACACAGGAGCATGAGCCCTCATGTGTGAATC 2859
DB 2578 GTGAAATGCTGAAGAAGGGGGCCAGCGCCAGGATGACAAAGCTCTGATGACTGAGCTA 2637
QY 2860 AAGATCTCATCCACATTTGTCAACATCTCAATGTGTGAACTCTGAGCGCTGACCC 2919
DB 2638 AAAATCTTACCCACATTTGGCCACCATCTGAAAGTGGTTAACTGTGGAGGCTGACCC 2697
QY 2920 AAGCGGGAGGGGCTCTCATGTGTGAAATTTGCAAGTTTGGAAAACCTATCACT 2979
DB 2698 AAGCAAGAGGGGCTCTGATGTGTGAAATGAAATGAAATCTCTCAAC 2757
QY 2980 TACTTACGGGGCAAGAAATGAATTTGTTCCCTATAGGCAAGGGGCAAGCTTCCGC 3039
DB 2758 TACCTCAAGACAAAGCTGACTTATTTTCTCAAGAGAGTCAACACTACATGAG 2817
QY 3040 CAGGCAAGACTACGTTGGG--GAGCTCTCCGTGATCTGAAAAGACGCTTGAACAGC 3096
DB 2818 CTAAGAAAGAAATGAGCGAGGCTGGAACAGGCAAGAAACCAAGACTAGATAC 2877
QY 3097 ATCAACAGACAGCAGCTCTGACAGCTCAAGCTTTGAGAGAAATCGCTCACTGAT 3156
DB 2878 GTACACAGAGCGAAAGCTTTGGAGCTCCGGCTTCAGAAAGATTAAGTCTGATGAT 2937
QY 3157 GTAGAGAAAGAAAGCTCTGAAGAACTGTAAAGAACTCTGCACTTTGAGAGATCTC 3216
DB 2938 GTTGAAGAAAGAGAGATCTGACGCTTCTCAAGAGAGCCCACTCAATGAGAACTG 2997
QY 3217 ATCTGTACAGCTTCCAGTGTGCTAAGGACATGAGAGTCTTGGCATCAAGAACTATC 3276
DB 2998 ATTCTTACAGTTTCAAGTGGCGAGAGGCAATGAGTCTCTGCTTCCAGAAAGTCAAT 3057
QY 3277 CACAGGACCTGGACAGCAAGAACTTCTCTATCGAGAGAAATGTGTAAATCTGT 3336
DB 3058 CATCGGAGCTGGACAGCAAGAACTTCTTATCTGAGAACAGTGTGAAGATTTGT 3117
QY 3337 GACTCGGCTTGGCCCGGAGCAATTAAGAACCCGGAATTAATGTGAGAAAGAGATGCC 3396
DB 3118 GATTTTGGCTTGGCCCGGATTAATTAAGAACCCGATTAATGTGAGAAAGAGATCT 3177
QY 3397 CGACTCCCTTTGAGTGTGAGCCCGGAAACCAATTTTGAAGAGATATCACAATTTGAG 3456
DB 3178 CGACTTCTCTGAATGATGTGCTCTGAAATCTATCTTTGAGCAAAATCTACAGCACAG 3237
QY 3457 AGGATGTGTGTCTTTCGTGTGTCTCTGAGAAATATTTTCTTAAAGTCTCTCCCA 3516
DB 3238 AGCGAGGTGTGTCTTACGAGATATGTGTGGGAAATCTTCTCTTAAAGTGTGTCCA 3297
QY 3517 TACCTGGGGTCAAGATTAAGAAATTTTGTAGAGATTTGAAAGAAAGAACTAGATG 3576
DB 3298 TACCCAGAGATCAAAATGATAGAGACTTTTGCAGTGTGAGGAGAGAGAGAGAG 3357
QY 3577 CGGGCTCTGATCACTACCCAGAAATGTACAGACCATCTGAGCTGTGAGATGAG 3636
DB 3358 AGAGTCTCTGATCTACTACTCTGAAATCTATCAGATCATCTGAGCTGTGAGACAG 3417
QY 3637 GACCCCAACAGAGACCTCTGTTTCAAGTGTGTGAGAGACTTTGGGAAACCTCTGCA 3696
DB 3418 GACCCCAAGAAAGGCAAGATTTTCAAGAACTTTGAGAAACCTAGTGAATTTGCTTCA 3477
QY 3697 GCAAAATGGCAGCAGAGATGGCAAGACTATAT 3728
DB 3478 GCAAAATGTACACAGAGATGTAAAGACTATCAT 3509

RESULT 8
US-11-136-527-2518
; Sequence 2518, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounes, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2518
; LENGTH: 4734
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2518

Query Match 13.3%; Score 718.6; DB 8; Length 4734;
Best Local Similarity 54.2%; Pred. No. 3.8e-211;
Matches 1751; Conservative 15; Mismatches 1389; Indels 78; Gaps 13;

QY 517 AAGTGTCTACCGGAGAGCTGACATAGCTTCACTGTTTATGTCTATGTGAGATTAC 576
DB 570 AAATCACCCTCAAGAGAAAGAAATGAAATCTGCAATCTCAATATTTTGTAGTATGCA 629
QY 577 AGATCAACATTCATCGCTCTGTCAGTGACACAGATGCGATGCTGTATCATCCAGAAC 636
DB 630 GGGAGCTCTTATATAGATGACAGATGACATACCAAACTGTGTGACATGACAG----- 684
QY 637 AAGAAACAAACTGTGTGATGCTTCCGAGGAGTGTGATTTCAACCTCAATGTCTCTT 696
DB 685 -AAGAAAGAGAGCTATCATCTCCCTGCGGGTGAAGTCTCCCAACATGACAGTCACTCT- 742
QY 697 TGGCTAGTATCCAGAAAGAAATTTGTTCCGATGAGAAACAAATTTCTCTGGACAGC 756
DB 743 -AAAAAGTTTCCATTGACGCTCTTACCCCTGACGGGCAAGAAATACGTTGGGACAGT 800
QY 757 GAGATAGGCTTACTCTCCCGATTACATGATCAGCTATGCGGAGTGTCTTGTGTAG 816
DB 801 AGAGAGGCTTTATATATAGCAAAATGACATGACAAAGATGAGATGACTGTGACCTGGAA 860
QY 817 GCAAAATCAATGATGAAACCTATCATGCTATCATGTACATGATCATGATTTGTGTAGATAT 876
DB 861 GCCACAGTTTAAAGGAGCACTGTATACCAAGAAATTTATGTGACCATCGGACAGCA--AT 917
QY 877 AGGATTTATGATGTGATTTCTGAGCCCGGACATGAAATTTGAGCTTATCTGCCGAGAAAA 936
DB 918 ACAATCTAGATGTCAAAATAGCCCGGAGCCCGGAGATTCCTCGGTGTCAAACT 977
QY 937 CTGTCTTAAATTTGACAGCGAGAACAGAGCTCAATGTGGGGCTTGAATTTCACTGGAC 996
DB 978 CTGTGTCTCACTGACCGTCAACGAGCTCAATCAAGGTGACAGATGAGTGGAAAT 1037
QY 997 TCTTCACCTTCAAGTCTCATATTAAGAAATTTGAAACCGGAGTGTGAAACCTTTCT 1056
DB 1038 TACCTGTGTAAGCAATTAAGAGACATCTATCAGGACCGGATTTGACCAAGCAATCCC 1097
QY 1057 GGGAGTGTGGGAGATTTTGTGAGACCTTGAACATTAAGAAATGTGACCAAGATGAC 1116
DB 1098 CACA-----GCAATGTGTTCACAGCGTTCTTAAGATCAACAGGTGAGAGCGGAGC 1151
QY 1117 CAAGGAGATACACCTGTGTAGCGTCAAGTGGAGCGAGATGATCAAGAAATGAACATTT 1176
DB 1152 AAGGACTCTACACTTGTGTGTGAAAGTGGGTGTATTTCCGACTTTCAACACCTCT 1211
QY 1177 GTTCGAGTTCAACAAAGCTTTTATTTGCTTTCGTGTAGTGGAGTAAATCTTTGTGANA 1236
DB 1212 GTGCATGTGTATGAAGAAAGGATTTATCAGCGTGAAGACATCGGAAGCAACAGGTGAGANA 1271

1237 GCCACAGTGGGCACTCAAGTC---CGAATCCCTGTGAAGTATCTCAGTTACCCAGCTCT 1293
1272 ACCATAGCAGGAAACGGTCCCATCGGCTGTCCATGAAAGTGAAGCCCTTCCCTCGGCA 1331
1294 GATATCAATGTGTACAGAAATGGAAGCCCATTTGATGCCAATCAACAAT-----GATT 1347
1332 GAAGTCGTATGTGTAAAAAGATGGCGTACCCCGCAACGGAATAATCTGCTCGCTATTCGGTG 1391
1348 GTTGGCGATGAACTCACCATCATGTGAAGTGAAGTGAAGATGAGAAATGAGAACTACACGGTTC 1407
1392 CATGCTACTCTGTTATTTATTCAAAGATGTAAGTACTGCCAGAGACGACGGGAGCTAATACRMS 1451
1408 ATCTCACCAACCCCATTTTCATGTGAAGAAACAGAGCCACATGCTCTCTGTGTTGTGAAT 1467
1452 TTGCTGGGCACTAATAACAGTCAAAAGCTATTTTGAACCTCACAGCCACTCTCATCTTAAT 1511
1468 GTCCCAACCCCAAGATGGGTGAAGAACCTTGATCTCGCTTATGATTC-----CTACAG 1521
1512 GTGAACCTCAGATCTACGAAAGTCCGTGTCTCTCCATCCAGCCCACTCTTACCCA 1571
1522 TATGGGACCATGSCAGACATTTGACATGCAAGTCTACGGCAACCTCCCTGCACCAATC 1581
1572 CTGGCAGACAGCAAGTCTCTCACTTGACCGGTATGGCATCCT--CAGCTACCATC 1628
1582 CAGTGTACTGTGCAAGCTAGAAAGAACCTGTCTCTACAGACCGGACCAACAGCCGCTAT 1641
1639 AAGTGGTGTGGCAACCCCTGTCTACAAACCACTCAAAAGAAAGATGACTTCTGCTTT 1688
1642 GCTTGTAAAGATGAGACACGTGA---GGATTTCCAGGGGGGAAACAAAGATCGAATC 1698
1689 GGGAGTGAAGATCTTTCATCTGTGATTCAGACCAACATAGGAAACGAATCCAGGGC 1748
1699 ACCAATAACCAATATGCCCTGATTGAAGGAAATAACCAATCTAAGTACGTGTCTATC 1758
1749 ATCACTACCGCATATGTCTATAGAAAGAACCAATAGACGATTAGCATTTGGTG 1808
1759 CAAGCTGCCCAAGTGTCAAGCTTGTACAATGTGAAGCCATCAACAAACGGGACAGAGA 1818
1809 GCTGACTCTCGGACCCCTGGAAGCTACAGCTGCAAGGCTTCAATAAATAGGAGCTGTG 1868
1819 GAGAGGTCAATCTCTTCCATGTGATCAAGGGGTCTGAAATTAATCTGTCAACCTGTGCC 1878
1869 GRGAGAGCATTAAGGTTTACGTCAASATGTGCCAAACGGCTTTCAGTTTCTTGGAA 1928
1879 CAGCCACTGAAGCAGGAGAGTGTCTCCGTGTGTGCACTGCAAGACAGAAATACGTTTGA 1938
1929 AAGATACCAACCGAAGAGAGAGACTGAACCTGTCTGTGTGATGATTAATCTCTGTAC 1988
1939 AACCTCAGGTGTACAGCTTGGCTCACAGGCAACATGCTCAGATGGGCAATCACTC 1998
1989 AGAGCATTTACTGATCTCTGTACAGAGATGTTAACACAGGACATGACACA-----TA 2043
1999 ACACCAAGTTTGCAGAACCTTGTGATCTCTTTGAAATCGAATGSCACATGTTTTCTAAC 2058
2044 GCATCAGTAAGCAAAAAATGSCACACTCAGGA----- 2077
2059 AGCACAATGACATTTGATTTGTGCAATTTGAGATGCTCTCTGSCAGAACCAAGGAGC 2118
2078 --CTACTCATCTACTCTGAACCTTGTATCAAGAAATGTGTCTGTGAAGACTCGGAGCC 2135
2119 TATGTTTCTCTGTCAAGATTAAGAAACCAAGAAAGACATTTGCTGTCTGTAACAGCTC 2178
2136 TATGCTCAGAGCCAGGAACATATACAGGGGAAAGSAYSMKKCGGAAGACAGAAATT 2195
2179 ATCATCTTAAGCGCATGCAACCATGATCAACCGAAATCTTGAGATTCAGAACCAACC 2238
2196 CTCGTTAAGATTGGAAGCGCACTCTGCTTCAAAACTCAGTGAACCAAGAGGTGTCC 2255
2239 ATTGGCAGACCATTTGAAGTGAATCTTGCCAGACATTTGAATCCATCCCAACATTTCA 2298
2256 ATCACTGCTCCACCACTTAACTGTCAAGCTAGAGGTGTCTGCTGCTCAGATCACT 2315

2299 TGCTTCAAGAACACAGAGACCCCTGTAGAAAGATTCAAGCATTTGATCTGAGAGATGGGAAC 2358
2316 TGTTTCAAAAACCAACCAAAAATAACAAGAGAACCGGAAATTATTTTGTGACCAAGAAAC 2375
2359 CGGAACCTGACTATCCGAGGGGTGAGGAAGAGATGAGGCTCTTACACTCTCCAGGCC 2418
2376 AGCAGCGTGTATTTGAAGAGTCAAGAAAGATGAGGTTGTCTATAGGTGCGAGACC 2435
2419 TGCAATGCTTTGCTGTGCAAGAGCGGAAGCGCTCTTCTATTAATAGAAAGTGGCCAGGAA 2478
2436 ACCAACAAGAAAGGGGTGTGGAAGAGCTCAAGCTATCTCACCTGTGACAGAAACCTCAGAC 2495
2479 AAGACCAACTTGAAGTCAATTATTCCTGTGCGCACTGACATGATATTCATGCTTCTGTG 2538
2496 AAGTCAACCTGAGCTGATTAACCTCAACGTCAGCTGATGTGTGGTGGCAACTCTTTTGG 2555
2539 CTCTTCTTGTGATTTGCTTACGSAACGTTTAAGGGGSCCAATGAAGGGGAACCTGAAGCA 2598
2556 CTCTTCTTAACTCTTTCATCCGAAACCTGAAGCGGTC--TTCTCCGAAGTAAAGACG 2612
2599 GGCTACTTGTCTATTTGTCAATGATCCAGATGAATTGCGCTTGTGATGAGCGCTGGAACGC 2658
2613 GACTACCTGTATCATCATATGSAACCAAGATGAATGCCCTGTGATGACATGTGAACGG 2672
2659 TTGCTTATGATGTCACAGCAAGTGGAAATCCCAAGGACCGGCTGAACCTAAGAAACCT 2718
2673 CTGCTCATATGATGTCACGAAGTGGAGTTTCCGGGAGAGACTTTAACTAGGCAATCA 2732
2719 CTTGGCCGGGTGCTTCCGCAAGTGAATTGAGCAGACGTTTGAATTGACAAAGCA 2778
2733 CTCRAGAGAGGGGCTTTTGGAAAGTGTTCAGGCTTCGGATTTTGGATTAAGAAATCA 2792
2779 GCGACTTGCAAAACAGTAGCCGTCAAGATGTTTGAAGAGGAGCAACACAGCGAGCAT 2838
2793 CCACTCTGCRGATCTGTGCTGTGAAGATGTTGAAGAGGGGACCAAGCCATGATGATAC 2852
2853 AAGCTCTGATGACCGAATCTGAAGATCTTGACCACTCGGCATCATCTGAATGTGTT 2912
2889 AACTCTTGAAGCGCTGTGACCAAGACCGGAGGGCTCTCATGTGATTTTGAATTTCTGC 2958
2913 AACTCMTGGAGGAGTGCACCAAGCAGAGGAGGAGGCTGTGATGTGATGATGATGATC 2972
2959 AAGTTTGAAGACATATCAACTTACTTACGGGGCAAGAAATGAATTTGTTCCCTAATAG 3018
2973 AAATATGAAGACCTGTCACTCACTTAAGACAAAGTGAATCTTCTGTCTCAACAG 3032
3019 AGCAAGGGGACGCTTCCGCAAGGCAAGCATACGTTGG--GAGCTCTCCGTGAT 3075
3033 GATGACGCTTGCATATGAGACCCAGAAAGAAAGCTGAGGCCAGACCTGAGACAGGAC 3092
3076 CTGAAAAAGCGCTTGGACAGCATACACAGACCGAGAGCTGTGCAAGTCAAGCTTTGTT 3135
3093 CAGAAACCCCGCTPAGACAGTGTACAGACGACGAGATTTCAACAGCTCCGGCTTCAG 3152
3136 GAGGAGAAATGCTCAGTGAATGTAGAGAAAGAAAGACCTTCTGAAGAACTGAAGAC 3195
3153 GAAGATTAAGAGTGTAGAGCATGTGAGAGAGAGGAGGAGATTAAGATGATCTCAGAGAG 3212
3196 TTCTGACCTTGAAGCATCTCATCTGTTAACGCTTCAAGTGGTAAAGGAGATGAGTTTC 3255
3213 CCCCTCAACATGAAAGACTGATCTCTCAAGTTTCCAAAGTGGCCAGAGCATGAGATT 3272
3256 TTGCACTCAAGAAAGTGTATTCACAGGAGCTGTGACAGCAAGAACATTTCTTATCGAG 3315
3273 CTGTCTCCAGAAAGTCAATTCAGGAGACCTGTGACAGCAAGAACATCTTTTATCTGAG 3332
3316 AAGAAATGTTTAAGATCTGTGAATTTGGCTTGGCCGGGACATTTTAAAGACCCGGAT 3375
3333 AACATGTGTGAAGATTTTGGACTTTGGCTTGGCCGGGATATTTTATGAACCCCTGAT 3392
3376 TATGTCAAGAAAGAGATGCCCCGACTCCCTTGAAGTGAATGAGCCCGGAAACCATTTT 3435

Db 3393 TACGTAGAGAGAGATACCTGACCTCCCTAAATGATGCTCCGATCATCTT 3452
Oy 3436 GACAGATATACCAATTCAGAGCGGATGCTCTTTGGGTGCTGCTGGGAAAT 3495
Db 3453 GACAGATATACCAATTCAGAGCGGATGCTCTTTGGGTGCTGCTGGGAAAT 3512
Oy 3496 TTTTCTTGTAGTCCCTCCCATACCTGGGGCTCAAGATTGATGAATTTTGTAGAGA 3555
Db 3513 TTTTCTTGTAGTCCCTCCCATACCTGGGGCTCAAGATTGATGAATTTTGTAGAGA 3572
Oy 3556 TTTGAAAGAAAGAACTAGAAATGCGGCTCTGACTACATACCCAGAAATGTAACAGACC 3615
Db 3573 CTGAAGGAAGGATGCGGATGAGAACACAGAGATATGCCAACCTGAATCTACAAATC 3632
Oy 3616 ATGCTGGATGCTGGGATGATAGAGACCCCAACAGACCCCTGTTTCAAGTTGGTGGAG 3675
Db 3633 ATGCTGGATGCTGGGATGATAGAGACCCCAACAGACCCCTGTTTCAAGTTGGTGGAG 3692
Oy 3676 CATTTGGGAACCTCTGCAAGAAATGCGGATGAGATGGCAAGACTATAT 3728
Db 3693 AGCTGCTGATCTGCTTCAAGCCATGTCACAGAGATGTAAGACTATCAT 3745

RESULT 9
US-11-136-527-7409
; Sequence 7409, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7409
; LENGTH: 1400
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-7409

Query Match 10.0%; Score 541; DB 8; Length 1400;
Best Local Similarity 88.1%; Pred. No. 1.7e-156;
Matches 565; Conservative 18; Mismatches 58; Indels 0; Gaps 0;

Oy 2582 AAGGGAAGTGAAGACAGGCTACTGCTATTGTCATGATCAGATGAAATGGCCCTTGG 2641
Db 1 AAGGGAAGTGAAGACAGGCTACTGCTATTGTCATGATCAGATGAAATGGCCCTTGG 60
Oy 2642 ATGAGCGCTGTGAACGCTTGTCTTATGATGCGAGCAAGTGGGAATTTCCCAAGGACCGGC 2701
Db 61 ATGAGCGCTGTGAACGCTTGTCTTATGATGCGAGCAAGTGGGAATTTCCCAAGGACCGGC 120
Oy 2702 TGAATCTAGAAAACCTCTTGGCCGCGGCTTGGCCCAATGATTTAGGCGACGCTT 2761
Db 121 TGAATCTAGAAAACCTCTTGGCCGCGGCTTGGCCCAATGATTTAGGCGACGCTT 180
Oy 2762 TTGAATGAGCAAGACAGGACTTGGCAAAACAGTACGCTCAAGATGTTGAAGAAGAGG 2821
Db 181 TTGAATGAGCAAGACAGGACTTGGCAAAACAGTACGCTCAAGATGTTGAAGAAGAGG 240
Oy 2822 CAACACACGAGAGATGAGGCTCTATGCTGAATCTCAAGATCTCATCATTTGATC 2881
Db 241 CAACACACGAGAGATGAGGCTCTATGCTGAATCTCAAGATCTCATCATTTGATC 300
Oy 2882 ACCATCTCAATGTGTGAACCTCTTAGGCGCTTGACCAAGCGGAGGAGGCTCTCATAG 2941
Db 301 ACCATCTCAATGTGTGAACCTCTTAGGCGCTTGACCAAGCGGAGGAGGCTCTCATAG 360

Oy 2942 TGATGTGGAATTTGCAAGTTTGAAGAACTTCACTTACTTACGCGGCAAGAAATG 3001
Db 361 TGATGTGGAATTTGCAAGTTTGAAGAACTTCACTTACTTACGCGGCAAGAAATG 420
Oy 3002 AATTGTTCCCTATTAAGCAAAAGGGGACGCTTCCGCAAGGCAAGACTAGTTGGGG 3061
Db 421 AATTGTTCCCTATTAAGCAAAAGGGGACGCTTCCGCTCTGGGAAAGACTATGTTGGGG 480
Oy 3062 AGCTCCGCTGATCTGAAGAAACGCTTGGACAGATCAACGACCGCAGAGCTCTGCCA 3121
Db 481 AGCTCCGCTGATCTGAAGAAACGCTTGGACAGATCAACGACCGCAGAGCTCTGCCA 540
Oy 3122 GCTCAGGCTTTGTTGAGAGAAATCGCTCAGTATGATGAGAGAAAGACTTGAAG 3181
Db 541 GCTCAGGCTTTGTTGAGAGAAATCGCTCAGTATGATGAGAGAAAGACTTGAAG 600
Oy 3182 AACTGTACAAAGACTTCTGACCTTGGACATCTCATCTGT 3222
Db 601 AACTGTACAAAGACTTCTGACCTTGGACATCTCATCTGT 641

RESULT 10
US-10-995-561-13324
; Sequence 13324, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARIGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13324
; LENGTH: 59110
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: NAME/KEY: misc_feature
; LOCATION: (1)...(59110)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13324

Query Match 7.4%; Score 397.8; DB 7; Length 59110;
Best Local Similarity 64.6%; Pred. No. 7.3e-111;
Matches 936; Conservative 3; Mismatches 375; Indels 135; Gaps 18;

Oy 4049 GTGGAATGATGCGCCAGTAAAGCAGGAGTCTGTGGCCCTCGGAGGCTCCACAGACCA 4108
Db 51429 GTGGAATGATGCGCCAGTAAAGCAGGAGTCTGTGGCCCTCGGAGGCTCCACAGACCA 51488
Oy 4109 GTGCTACAGATCTGTGGTATCACTGATGACACAGACCAACCGTGTACTCAGAGAG 4168
Db 51489 GTGCTACAGATCTGTGGTATCACTGATGACACAGACCAACCGTGTACTCAGAGAG 51548
Oy 4169 AGCGAGACTTTTAAAGATGTGATGCTGAG----- 4201
Db 51549 AAGCGAGACTTTTAAAGATGTGATGCTGAGCAAAACGATGAGACAGCCAGATTC 51608
Oy 4202 TTCAAGCTGACGACAGGACCAACATGCGCTCACTCTGTTTAAATGAAAGGTCCTGT 4261
Db 51609 TTCAAGCTGACGACGAGGACCAACATGAGCTCTCTCTGTTTAAAGGAG----- 51659
Oy 4262 CCCGCTCCGCCCCCACTCTCTGAAATCAGAGAGAGAGTGTCTGATTTTCAAGTG 4321
Db 51660 --CATCAACACCCCACTCCCGACATCACTAGAGAGTGTCTGATTTTCAAGTG 51717
Oy 4322 TTGTTCTTCCACCAACCCGGAATGACCATTTGATTTTCAATT-----TTGAGAGAG 4376
Db 51718 TTGTTCTTCCACCAACCCGGAATGAGCATTTGATTTTCAATTTCGACAAACAGAAAAAG 51777

QY	4377	GACCTCAGCTGCAGGAAGCGTTGGCTCCACAGGACATTTCCAGAAAGATCCCATGACCCA	4436
Db	51778	GACCTCGGACTGCAGGAGGACGATCTTCTAGGCAATATCTGG- GAAAGGCTTGTGACCCA	51836
QY	4437	AGAAAT-----GTTGACTCTACTCTCTTTTCCATTCATTTAAAG	4477
Db	51837	AGATGTGTCTGTGTCTTCTCCGAGTGTGACCTGATCCCTTTTCATTTCAATTTAAAA	51896
QY	4478	TCCATATATATGTGTCCTGCTGT- GGTCTACATACCAAGTTAAAGCAAAAGACTTTCAAC	4536
Db	51897	GCATTTATCATGCCCCCTGGCTGGGGGTCAACAAGGTTTAAACAAAGAAGTTCAAA	51956
QY	4537	ACGTGACTCTGTCTCCAGAAAGTGGCAAC-----GGCACTCTGTGAACT	4584
Db	51957	AATGG--CCCATCTCTAAAGAAAGTACAGTACTCGGGAGCGTACACTTTGTATAACT	52014
QY	4585	GGATCGAATGGGCAATCTTTGTGTGTTAGAGATGGGTGATGTCCAG--GGCCGA	4640
Db	52015	AGAAAGATTAACCAAGCAATGTATAGTGTTCAGAGTGTGTAAGATGGGAAGATTTTGACGG	52074
QY	4641	GTCGTCTACCTTGAAGGCTTTTGGAGAGATGGGGCTATG-AGCCAAAGTTTAAGTGTG	4699
Db	52075	CTAGTCTATTCGAAGAGGCTTTGTTTAGACGTGGTCCCAAGCCAAAGCTTTAAGTGTG	52134
QY	4700	GATGTGCACTGGAGAGGAAGCGCGAAG----TCGCTCGGAGACGGTTGGAAGCTTG	4754
Db	52135	AATTCGGAATGATGGAAGAGAAAGCTAACGTTACTCTTGGAGATGACTGGAGCTTG	52194
QY	4755	CAGATGCAATGTGCTGTGCTCTGGTGGAGGTGGGCTTGTGGCTGTGAGAAACGAAG	4814
Db	52195	CAAAATGATGTGTCTCTCTGAGAGGTGGGATGGGGTCTGTCTGAATGTAAAG	52254
QY	4815	CGGCCGAGCGGTTGTGGATTTGGAAAGGTTTGCAGTCTTCAACAGTCGGGTTACAGCGCA	4874
Db	52255	GTTTCAGACGGGGTTTCTGTGTTTAAAGGTTGTGGTGTCTGCAAGTTGGGCTAAAGTAA	52314
QY	4875	GTTCCCTGTGGCGTTTCTTACTCTTAATGAGATTTCTTCCGAGCTTAACTGTCTCT	4934
Db	52315	GTTGTGTGTGTGTTTGTGACTCTTAATGAGATTTCTTCCAAACGGTTACGTGTCTCT	52374
QY	4935	GGCTGTGCCCCAGGAAGGAATGATGAGCGTGTCTCTCTCTCATCTCTCAGGCTGTGC	4994
Db	52375	GGCCAAAGCCCCAGGAAGGAATGATGAGCT--CTGGCTCTTGTCTTCCAGGCTGATTC	52432
QY	4995	TTAATTCAGAACACCAAAAGAGGAAGCT- CGGCAAGGCTCTGACGGGCGGAGAGA	5052
Db	52433	TTTATTCAGAAATCCAAAGAAAGGACATTCAGCTCAAGGCTCTCTGCGGTGTGAAGA	52492
QY	5053	ATTGTGGAACAGAGACGAAACTCAGGCTTCTGCTGGGTGAGAGACCAAGTGGC----	5107
Db	52493	GTTCTGACTGCAAAACCAACCACTCTGTGTTCTTCTGGAAATGAATACCTCTCATATCTGTCC	52552
QY	5108	-----GCCCTGTGGGAGGCTGAGGGTCTCTGTCAA-----GTGGCGGTA	5149
Db	52553	TGATGTATATGTCTGAGACTGATGCGGAGGTTCAATGTGAAGCTGTGTGGGTCA	52612
QY	5150	AAGGCTCAGGCTGTGTCTTCTCTATCTTCACATCC-----TGTCAAGGC	5195
Db	52613	AAAGTTACAGGAAGGATTTTAAACCTTTGTGTCTTCCCTCTGCCCAACCAACTCTCACCC	52672
QY	5196	CCCAAGTCTCAGATTTTAGCTTGTGGCTTCTCATGAGCAGAAATCTTAATTTGTT	5255
Db	52673	CGCAACCAATCAGATTTTATGTTATTTGG--CTCTACTCCAGTAAACTGATTTGGTT	52729
QY	5256	GGTTTGTCTTCAGATATCACTAGCCAGATTTGCAATTTACTTTTACCGAGGTTATG	5315
Db	52730	TGTTCACTCTCTGATGATATTTATGACAGACTTCAAAATTAATTTATPACCCA---AATT	52786
QY	5316	ATAACATCTATGTATCTTTAAGATTTTAAACCTATATAAACATATGTCATGTTCTGC	5375
Db	52787	ATAACATCTATGTATTTATTTAAGCTTTTAAACATATAGACTATTTCTACTAATTTTTC	52846
QY	5376	CTGTGTCT 5384	

Db	52847	CCTGTCTCT	52855
	RESULT 11		
	US-11-136-527-6326		
	; Sequence 6326, Application US/11136527		
	; Publication No. US20050287570A1		
	; GENERAL INFORMATION:		
	; APPLICANT: Wyeth		
	; APPLICANT: Mounts, William M		
	; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes		
	; FILE REFERENCE: 031896-041000 (AM101086)		
	; CURRENT APPLICATION NUMBER: US/11/136,527		
	; CURRENT FILING DATE: 2005-05-25		
	; PRIOR APPLICATION NUMBER: US 60/574,294		
	; PRIOR FILING DATE: 2005-05-26		
	; NUMBER OF SEQ ID NOS: 362830		
	; SOFTWARE: PatentIn version 3.2		
	; SEQ ID NO 6326		
	; LENGTH: 1400		
	; TYPE: DNA		
	; ORGANISM: Rattus norvegicus		
	US-11-136-527-6326		
	Query Match	6.9%; Score 369.4; DB 8; Length 1400;	
	Best Local Similarity	76.8%; Pred. No. 2.6e-103;	
	Matches 658; Conservative	13; Mismatches 127; Indels 59; Gaps 16;	
Qy	4572	CCTCTGTGAAACTGGATCGAATGGGC-----AATGCTTTGTGTGTGGAGATGGGTGAG	4625E
Db	58	CCTCTGTGAAACTGGATCGAATGGGCAGATGTTAGTGTGTGTGTGTTG--GGATGGGTGAC	116
Qy	4626	ATGTCGCCAGGGCCGACGTCGTCTACTCTTGGAGCCTTTGTGAGAGATG-CGGCTATGAGCC	4684E
Db	117	ATGTCGCCAGGGCTGAC---TCTAACCCTAAAGGCTTTGTGTGAGATGTGGCTATGAGCC	172
Qy	4685	AAGGTTAAAGTGTGGATGTGGA-CTGGGAGGAAAGGAAGCCGCAAG-TCGCTCGAGAGAGC	4743A
Db	173	AAGGTTAAATGTGATGTGACTGGTGAAGAGAAAGGACAGCTCGCTCAGAGAGCG	232
Qy	4744	GTTGGAGCTTGACAGATGCAATTTGCTGGCTCTGTGTGAGAGGTGGGCTTGTGGCTGTGACG	4803J
Db	233	GTTGGAGCTTGCAATGCAATGCTGCTGGCTGTGTGTGGAAGGACAGATGTTSCCTGTGACG	292
Qy	4804	AAAGCGAAAGCGCGCGCGGACAGGCTTTGCTTTGGAAGTTTGCCTGCTCTTCAACATCGG	4863E
Db	293	AAAGCCCAAGCGGCGCTGTGCGGGGTTTGGAAAGTT--GCTTGCTTCAGCGTTGG	350
Qy	4864	GTTACAGGCGAGTTTCCCTGTGGCGTTTCTCTACTCTATGAGAGTTTCCCTTCGGACTCTT	4923J
Db	351	GCTAC-TGCCAATTCCTCTGTGCTGTTCCTTA--CCCTAATCAATTCCTGTCGGAACCTTT	407
Qy	4924	ACGTGTCTCTGTGCGCTTGACCCACAGAAAGAAATGATGACGTTGCTCTTCTCAATCTCT	4983J
Db	408	ACGTGTCTCTGTGCGCTTGACCCACAGAAAGAAATGATGACGTTGCTCTTCTCAATCTCTC	463
Qy	4984	CAGGCTGTGCTTAATTCAGAAACCAAAAAGAGGAAACGTCGGACAGG-----GCTCTC	5038E
Db	464	CAGGCTGTGCTTAATTCAGAAATCTAAAGAGAGGAGCTTTTGGCCGAGGCTCCGCTCTCT	523
Qy	5039	GACCGGCGCCGAAGATTTGTGAGAACAGAAACGAAACTCAGGGTTTCTGTGGGTGAGAC	5098E
Db	524	TGTGATGCTGAAGAACTGTGAGAAACAACAAGAAACTCAGGGTTTCTGTGGGTGAGATAC	583
Qy	5099	CCACGTGCGCGCTGTGTGGCAGGTCTGAGGGTTCTGTCAAGTGG---CGCTAAAGGCT	5155E
Db	584	CCAATTGTCTGCGCTGTGTGGCAGGTCTGAGGGGTTTGTCAAGTGGCGACCGTAAAGGCT	643
Qy	5156	CAGGCTGG-----TGTCTTCTCTGATGCTCAACGCTCTGTGAGGCC-----	5195E
Db	644	CAGGCAAGAGATATCCCTTGTGTCTTCTCTCAACTCAACTCTGTCTTGGCCACACACCCC	703

5196 -----CCCAAGTCTCAGTATTTAGCTTTGGCTTCTGATGGCAGAAAAATCTTAAT 5250
Db CCCCTCCCCAGTGTCAAGTATTTAGCTTTGTGSCCAAGTATGGAGAAAGCTTAATT 763
Qy 5251 TGGTTGGTTGGCTTCCAGAT--AATCATAGCCAGATTTGCAAAATTAATTTTACCGCA 5308
Db 764 GGTGKTTTGGCTCTCCAGATAAATCACTAGTCAAGATTTGCAAAATTAATTAATSCCA 823
Qy 5309 GGTATGATTAACATCTACTGATATCTCTTGAATTTTAACTTAATAACTATGCTACTGG 5368
Db 824 GG-TGTGATTAACATCTACTGATATCTGTTTGA--TTTAACATATAAGCTGSDCKRSTTD 881
Qy 5369 TTTTGCCTGTGTGCTT 5385
Db 882 TTTTGTGTGTGCTT 898

RESULT 12
US-11-136-527-2653
; Sequence 2653, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: Patencin version 3.2
; SEQ ID NO 2653
; LENGTH: 3816
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2653

Query Match 5.0%; Score 269; DB 8; Length 3816;
Best Local Similarity 53.5%; Pred. No. 7.5e-72;
Matches 564; Conservative 43; Mismatches 418; Indels 30; Gaps 4;

Qy 2661 GCCTTATGATCGCAAGTGGGAATTCCTCCAGGACGGCTGAATACTAGAAAACCTCT 2720
Db 1775 RCTTCTTATGAYCAAAATGGAGTTTCCAGAAACAGGCTGATTTTGGAAAGACMTT 1834
Qy 2721 TGGCCGCGGTGCTTGGCCCAAGTATGAGGACAGCCTTTTGAATTGACAGACAGC 2780
Db 1835 GGGAGCTGTGCTTGGGAAGTGTGARGCCACTGCMATGCTTATTAAGTCGGA 1894
Qy 2781 GACTTGCAAAACAGTACCGCTCAAGATGTTGAAAAGAGCAACACACAGGACATCG 2840
Db 1895 TGCTGCGCATGACRGTTGCGGTGMAATCTCAACCAAGTGCCTTTAACHGAAAGGA 1954
Qy 2841 AGCCCTCATGCTGTAATCAAGATCTCATCACTGTCACATCTCAATGTGTGAA 2900
Db 1955 GGCCTTATGTCVGAAGTGAAGTCTCTGAGCTACTGGGAAATCAAGATATGTGAA 2014
Qy 2901 CCTCTAGAGCCCTGACCAACCGGAGGCGCTCTCATGTGATGTGAAATTCGCA 2960
Db 2015 CCTCTTGGMGCRITGWC---SGTGGARGGCGCCACCTGGTCMTTACAGATATYTTG 2071
Qy 2961 GTTTGGAACCTATCACTTACGGGGCAAGGAATGATTTGTTCCCTATTAAG 3020
Db 2072 CTATGATGATCTTTGAATTTTGAAGAAAGGATCTCTTTATTTTCTCAAGCA 2131
Qy 3021 CAAA-----GGGCAAGCTTCCGCAAGGCAAGCACTGTTGGGAGCTCTC 3068
Db 2132 AGAAGARCAAGCAGAGMGSGACTTTATAGAACTTTGCAATCAAGAGAGYCTTCTG 2191
Qy 3069 CGTGATTTGAAGAGCCTTGGACAGATCAACAGC--AGCAGAGCTCTGCGAGCTCA 3126
Db 2192 TGACAGYCAAAAGATATATGACATBAAGCTTGCGTTTCTCATGTSGRCCMACAA 2251

3127 GGCTTTGTGAGAGA-----AATCGTCAGTATGTAGAGAAAGAAAGC 3173
Db 2252 GACACAGARAGAGATCCGCAAGATAGATATGATATAGAAAGACGTACTCTCC 2311
Qy 3174 TTCTGAGAACTGTACAAAGACTTCTGACCTTGGAGCATCTCATCTGTACAGCTTCA 3233
Db 2312 CATCATGAAAGATGACGAGCTGTCTGCACTTGAMGATTTGTGAGGCTTCTCA 2371
Qy 3234 AGTGCTAAGGCAAGAGTCTTGGCATCAAGAGTATCCACAGGACCTGAGC 3293
Db 2372 GGTGCGCAAGGCAAGGCTTCTGCTGCTCCCAAGATATGATTCACAGATTTGGCAGC 2431
Qy 3294 ACGAAACATTCCTCATCGAGAAAGATGTGTTAAGATCTGACTTGGCTTGGCCCG 3353
Db 2432 CAGGAATATCTCTCTTAAACAGGCGGATCAAAAGATTTGCAATTTGSGCTAGCCAG 2491
Qy 3354 GACATTTATTAAGACCGGATTTATGCAAAAGAGATGCGACTCTTTGAAGTG 3413
Db 2492 AGACATCAAGAAATGATGCAATTAAGTGTGAAAGAAATGACAGCTGCGTGAAGTG 2551
Qy 3414 GATGCCCCGGAACCATTTTGAACAGATATACATTCAGACGATGTGTCTTT 3473
Db 2552 GATGACACCGAGACATTTTCARCTGCGTACATTTGAAAGTGAATGCTGTCTTA 2611
Qy 3474 CGGTGTGTGCTGAGAAATATTTCTTAGTGTCTCCCATACCTGAGGCTCAAGAT 3533
Db 2612 TGGATTTTCTCTGAGAGCTTTCTCTTATGAAAGACGCTTACCAAGGATCGCGT 2671
Qy 3534 TGATGAAAGATTTGTAGAGATTAAGAAAGAACTAGATGCGGCTCTGACTAC 3593
Db 2672 CGAATCAAGATTTTCAAGATGATCAAGAGATTTCCGAATGCTCAGCGCTGACAGC 2731
Qy 3594 TACCCCAAGATTTGACAGACATGCTGAGCTGCTGATGAGACCCCAACAGAGAC 3653
Db 2732 GCCTGCGCAATGATGATGAAAGATTTGCAAGATTTGCTGAGATGCTATCCCTGAAAAGGCC 2791
Qy 3654 CTGCTTTGAGAGTGTGAGACATTTGGAAAC 3688
Db 2792 AACATTCAGAGAGTGTGCTGAGCTGATGAGAGC 2826

RESULT 13
US-10-821-234-735
; Sequence 735, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andaman, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_sfo_genes version 1.0
; SEQ ID NO 735
; LENGTH: 2919
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-735

Query Match 4.6%; Score 250; DB 7; Length 2919;
Best Local Similarity 55.4%; Pred. No. 4.7e-66;
Matches 550; Conservative 0; Mismatches 430; Indels 12; Gaps 3;

Qy 2677 AATGGGAATTTCCCGAGGACCGGCTGAACCTAGAAAACCTTTGGCGGCGGTCTTC 2736
Db 1720 AATGGGAGTTTCCCGGAAACAACTGCAATTTGTGAAGACCTTCGAGCTGAGGACCTTT 1779

QY	2737	SSCCAAAGATTGAGGACGAGCTTTGGAAATTGCAAGACAGCAGCTTGCAAAACATA	2738
Db	1780	GGAAGGTGTGGAGGCCACGCGCTTTGGTCTGGGCAAGAGAGATGCTGTCTTGAAAGTGT	1839
QY	2797	GCCCTCAAGATGTGTTGAAAGAGAGCAACACACAGCAGCATTCGAGCCCTCATGTCTAA	2856
Db	1840	GCTGTGAAGATGTCTAATGCCAGCGGCCCATGTGTATGAAAGAGAGCCCTCATGTCCAG	1899
QY	2857	CTCAAGATCTTCATCCACATTGTTACCAATCTCAATTGTGTGAACCTTCTTAGCGCCTGC	2916
Db	1900	CTGAAGATCATAGAGCCACCTGGGCGCAGACGAGAACATGTCTCAACCTTCTGGGAGCCTGT	1959
QY	2917	ACCAAGCCGGGAGGGCCTCTCATGGTGTATTGTGAATTCTGCAAGTTTGGAAACCTATCA	2976
Db	1960	ACC---CATGGAGGCCCTGTACTGTGTATCAAGGATACTGTGTCTATAGGAGCACTGTCTC	2016
QY	2977	ACTTACTTACGGGGGCAAGAAATTAATTTGTTCCCTTAATAGCAAAAGGGGACGCTTC	3036
Db	2017	AACTTCTTGCGAAGGAAGGTGAGGCCATGCTGTGGGACCCAGCCTGAGGCCCGCCAGAC	2076
QY	3037	CGCCAGGCGAAGACTACGTTGGGAGCTTTCCTGTGATCTGAAA--AGACGCTTGAC	3093
Db	2077	CCCGAGGAGGCGTGTGACTATATAGAACATCCACCTCGAAGAAATATGTCTCGCAGGGAC	2136
QY	3094	AGCATCACAGACGACAGAGCTCTGCCAGCTCAGCCTTTGT-----TGAGAGAAATTCG	3147
Db	2137	AGTGGCTTCTCCAGCGAGGAGTGTGACACTATGTGAGATGAGGCCCTGTCTCCACTTCT	2196
QY	3148	CTCAGTGTATGTAGAGAAAGAAAGCTTCTGAAAGACTGTACAAGACTTCTCTGACTTG	3207
Db	2197	TCAATATGACTCTTCTCTGAGCAAGACCTGTGACAGAGAGATGAGAGGCCCTTGAGACTC	2256
QY	3208	GAGCATCTCATCTGTTACAGCTTCCAGATGGCTAAAGGCATGAGATTCTTGAGCATCAAG	3267
Db	2257	CGGGACCTGCTTCACTTCTCCAGCCAAATAGCCCGGCGATGAGCCTTCTCGCTTCCAG	2316
QY	3268	AAGTATATCCACAGGAGCCTGGCAGACAGAAACATTCCTCATGTGGAGAAATATGTGTT	3327
Db	2317	AATTGCATCCACCGGAGAGTGGACGGCGGTAAACGCTGTGGACCAATGTCTCATGTGGCC	2376
QY	3328	AAGATCTGTGACTTTCGGCTTGGCCCGGAGACATTTATTAAGACCCGGAATTATGTAGAAA	3387
Db	2377	AAGATTGGGAGCTTGGGCTGGCTAGGAGCATCATGATATGACTCCAACTACATTGTCAAG	2436
QY	3388	GGAAGTCCGACATCTCCCTTTGAAGTGAATGAGGCCCGGAAACATTTTTCACAGATATAC	3447
Db	2437	GGCATATGCCCTCTGCTGTGAAGTGAATGAGCCCAAGAGACATCTTTTGACTGTGTCTAC	2496
QY	3448	ACAAATTGACAGCATGTGTGCTTTCGGTGTGTGCTCTGGGAAATATTTTCTTCTAGT	3507
Db	2497	ACGGTTCCAGACGAGCTGTGTGCTCATGTGACATCTCTCTGGAGATCTTCTCACCTTGGG	2556
QY	3508	GCTTCCCATTAACCTTGGGGGTCAAGATTGATGAAGAAATTTTGTAGAGATTGAAGAAAGA	3567
Db	2557	CTGAATCCCTTACCTTGCGATCTGTGTGAACAGCAAGTTCTTATTAACGTGTGAAGATGGA	2616
QY	3568	ACTAGAAATGCGGGCTCTGACTATACATACCCAGAAATGTACAGACCATCTGGACTGC	3627
Db	2617	TACCAAAATGGCCACGCTGCAATTGGCCCAAGAAATATATACAGCATCATGACGAGCTGC	2676
QY	3628	TGGCATGTAGAGACCCCAACCAAGACCTCTGTT	3659
Db	2677	TGGGCTTTGAGCCCAACCAAGACCACTT	2708

RESULT14
US-11-000-688-358
Sequence 358, Application US/11000688
Publicat ion No. US2005028754A1
GENERAL INFORMATION:
APPLICANT: BERTUCCI, Francois
HOUGGARTE, Remi
APPLICANT: BIRNBAUM, Daniel

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? TITLE OF INVENTION: GENE EXPRESSION PROFILING OF COLON CANCER WITH DNA ARRAYS
? FILE REFERENCE: 1423-R-03
? CURRENT APPLICATION NUMBER: US/11/000,688
? PRIOR FILING DATE: 2004-12-01
? PRIOR APPLICATION NUMBER: US 60/525,987
? PRIOR FILING DATE: 2003-12-01
? NUMBER OF SEQ ID NOS: 1596
? SOFTWARE: PatentIn version 3.2
? SEQ ID NO 358
? LENGTH: 3985
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Description of Artificial sequences:primer
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: (1)..(3985)
? OTHER INFORMATION: colony stimulating factor 1 receptor,
? OTHER INFORMATION: formerly medonough feline sarcoma viral (v-fms)
? OTHER INFORMATION: oncogene homolog(CSF1R) gene.
US-11-000-688-358

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DB	2012	AAGTGGGAGTT	CCCCCGGAACAACTCGAGTTTGTAAGACCTCGGAGCTGGAGCCTTT	2071
QY	2737	GGCCAAATGATTTGAGCGCAGACGCTTTTGGAAATTA	CAAGACAGCACTTGGCAAAACAGTA	2798
DB	2072	GGGAAGGTGGGGAGCGCCACGCGCTTTTGTCTGGGCAAGAGATGCTGTCTGAAAGTGT	2131	
QY	2797	GGCGTCAAGATGTTGAAGAAAGAGCAACACAGCGAGCATGAGCCCTCATGTCTGAA	2856	
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QY	2857	CTCAAGATTCCTCATCCACATTTGTCCACATCTCATGTGTGAACCTCTTACGGCGCTGC	2916	
DB	2192	CTGAAGATCATGACCCACCTGGGCGACAGAGAACTCGTCAACTCTTCTGGAGCCTGT	2251	
QY	2917	ACCAAGCCGGGAGGGCCTCTCATGTGTGATTTGTGAAATTCGCAAGTTTGAAACCTATCA	2976	
DB	2252	ACC---CATGAGGCGCCCTGTACTGTGTCATCAAGAGTACTGTGTCTATGGCGA	2308	
QY	2977	ACTTACTTACGGGGCCAGAGAAATGATTTGTTCCCTATTAAGACAAAGGGGCAAGCTTC	3036	
DB	2309	AACTTTCTGCGAAGAAAGGCTGAGGCCATGCTGGGACCCTGAGCCCCGCGCAAGAC	2368	
QY	3037	CGCAGGAGCAAGAGCTACGTTGGGGAGCTCTCCGTGATCTGAATA---AGACGCTTGGAC	3093	
DB	2369	CCGAGGGAGAGGCGTTCGACTATAGAACATCCACTCGAAGAAATATGTCCGAGGGAC	2428	
QY	3094	AGCATCAACGAGCAGCAGACTCTGCAGCTCAGGCTTTGT-----TGAAGAGAAATCG	3147	
DB	2429	AGTGGCTTTCACGCGAGGTGTGTGACACCTATGTGAGATGAGGCGCTGTCTCCACTTCT	2488	
QY	3148	CTCAGTATGTAGAGAAAGAAAGCTTCTGAAGAACTGTACAAAGACTTCTTACCTTG	3207	
DB	2489	TCAATATACCTCTTCTCTGTGACAAAGACTTGGAACAAAGAGATGGAACGCGCCCTTGAAGCTC	2548	
QY	3208	GAGCATCTCATCTGTACAGCTTCAAGTGGCTTAAGGGCATGAGGATCTTGGCATCAAG	3267	
DB	2549	CGGACCTGCTTCACTTCTCCAGCAAGATGACCAGGGCAATGGCTTCTCGCTTCCAG	2608	
QY	3268	AAGTGTATCCACAGGGACCTGGGAGCAAGAAATTTCTCTATTCGGAAGAAATGTGGTT	3327	
DB	2609	AATTGATCAACCGGAGCGTGGACGCGCTGTACGTGTGTAACCAATGTGCATGTGGCC	2668	
QY	3328	AAGATCTGTGACTTGGGCTTGGCCCGGACATTTATTAAGACCCGGATTATGTCAAGAA	3387	
DB	2669	AAGTTTGGGACCTTCGGGCTGGCTAGGAGCATCATGATATACCTCAACTCATTTGTCAAG	2728	

Oy	3388	GGAAATGCCCACTCCCTTTGAAAGTGAATGGCCCCGAAACCATTTTGAACAAGTATAC	3447
Db	2729	GGCAATGCCCCCTCCTGCTGAAGTGAATGGCCCCGAAAGACATCTTTGACTGTCTAC	2788
Oy	3448	ACAATTCAAGAGGATGTGTGCTCTTTGCGTGTGTTCTCTGGGAATATTTTTCCTTAGT	3507
Db	2789	ACGGTTCAAGAGGAGAGCTCTGGCTCCATGGACATCCCTCTCTGGAGATCTTCTCACTGGG	2848
Oy	3508	GCGTCCCATATCCCTGGGGGTCAAGTTGATGAAGATTTTGTAGAGATTGAAGAAAGA	3567
Db	2849	CTGAATCCCTTACCTTCGGCATCTGTGTGAACAGCAAGTTCTATTAACCTGTAAAGGATGA	2908
Oy	3568	ACTAAGATGCGGGCTCTTGACTACACTACCCGAGATATGTACAGACCATTCTGACTGC	3627
Db	2909	TACCAAAATGGCCACGCTGCAATTTGGCCCCAAGAATATATACAGCATCATGACGCGCTGC	2968
Oy	3628	TGGCATGAGAGCCCAACAGAGACCCCTCGTT	3659
Db	2969	TGGGCTTTGGAGCCCAACCAAGACCCACCTT	3000

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? Sequence 3400, Application US/111336527
? Publication No. US20050287570A1
? GENERAL INFORMATION:
? APPLICANT: Wyeth
? APPLICANT: Mount, William M
? TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
? FILE REFERENCE: 031896-041000 (AM101086)
? CURRENT APPLICATION NUMBER: US/11/136,527
? CURRENT FILING DATE: 2005-05-25
? PRIOR APPLICATION NUMBER: US 60/574,294
? PRIOR FILING DATE: 2005-05-26
? NUMBER OF SEQ ID NOS: 362830
? SOFTWARE: PatentIn version 3.2
? SEQ ID NO 3400
? LENGTH: 3679
? TYPE: DNA
? ORGANISM: Rattus norvegicus
? US-11-136-527-3400

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QY	2737	GGCCAGTGAATTG	AGGCGAGCGT	TTTTGGAA	TTTGAACAAGACAGGCACTTGGAAAA	CAAGTA 2796	
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QY	2857	CTCAAGATTC	CTCATTCACATTTG	TGCACCATCTCAT	TGAGTGAACCTTCTAGAGCGCTGC	2916	
Db	1969	CTGAAGATCA	TGATGATC	ACTGGGACAGAC	CAAGATATAGTCAACCTCTTGGAGCCTGT	2028	
QY	2917	ACCAAGCCGGGAGG	GCGCTCTCATG	TGTGAATTGTGA	ATTCTGCAAGTTTGGAAACCTTATCA	2976	
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Db	2326	TGGGACCTGCTCCACTTCTCCAGCCAAGTGGCTCAGGGCATGGCCCTTCTGCTTCTTAA	2385
Qy	3268	AAGGTATATCCACAGGACCTGGCAGCACAGAAACATTTCTCTATGTGAGAGAGATGTGTT	3327
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Qy	3328	AAGATCTGTGACTTCGAGCTTGGGCCCGGGAACATTTATTAAGACCCGGAATATGTACAGAAA	3387
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Qy	3448	ACATATTAGAGACCATATGTGTGTTCTTTGGTGTGTGCTCTGGGAAATATTTTCTTGTAGT	3507
Db	2566	ACAGTTTACAGATGTATGTGTGTCTTACGGGACTCTCTCTGGGAGATCTTCTCCCTTGTG	2625
Qy	3508	GCTTCCCATATCCCTGGGGGTCAAGATTGATGAAATTTTGTAGAGATTGAAGAAAGA	3567
Db	2626	CTGAACCCCTACCCCGGATCTCTAGTAAACAACAGTTTCTACAACTGGTGTAGAGATGA	2685
Qy	3568	ACTAGAAATGGCGGCTCTGACTACACTACCCCAAGAAATGATACGACCATGCTGACTGC	3627
Db	2686	TACCAAAATGGCCAGCTGTATTTTGACCCGAAGAACATATACACATCATGCAAGTCTGCG	2745
Qy	3628	TGCGATAGAGACCCCAACCAAGACCTCGTTTTCAGAGTT	3668
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Job time : 814 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 30, 2006, 11:45:09 ; Search time 28 Seconds
(without alignments)
3971.385 Million cell updates/sec

Title: US-10-090-183-6

Perfect score: 7046
Sequence: 1 MESKALLAVAFVCVETRAA.....KVVDAVHADSGTTRSPV 1345

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 2: /cgn2_6/prodata/1/1aa/6 COMB.pep:*
- 3: /cgn2_6/prodata/1/1aa/H COMB.pep:*
- 4: /cgn2_6/prodata/1/1aa/BCTUS COMB.pep:*
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- 6: /cgn2_6/prodata/1/1aa/backfill1es1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	7020	99.6	1367	2	US-08-193-829B-2
3	7020	99.6	1367	1	US-09-766-678-2
4	6994	99.3	1367	1	US-07-813-593-4
5	6994	99.3	1367	1	US-07-977-451-6
6	6994	99.3	1367	1	US-07-946-507-4
7	6994	99.3	1367	1	US-08-252-517-6
8	6994	99.3	1367	1	US-07-906-397A-6
9	6994	99.3	1367	1	US-08-601-891-6
10	6994	99.3	1367	1	US-09-021-324-6
11	6994	99.3	1367	2	US-09-872-136B-6
12	6994	99.3	1367	2	US-09-919-408A-6
13	6994	99.3	1367	4	PCT-US92-02750-8
14	6994	99.3	1367	4	PCT-US92-05401-6
15	6994	99.3	1367	4	PCT-US92-09893-6
16	6127.5	87.0	1356	2	US-09-098-707A-2
17	6127.5	87.0	1356	2	US-09-483-539-2
18	6127.5	87.0	1356	2	US-10-100-405A-2
19	6127.5	87.0	1356	2	US-10-022-939-2
20	6124.5	86.9	1356	2	US-09-949-016-6198
21	6124.5	86.9	1356	1	US-09-949-016-9853
22	6102.5	86.6	1356	1	US-08-810-116-8
23	6102.5	86.6	1356	1	US-07-930-548A-8
24	4328	60.0	806	1	US-08-443-861-5
25	4328	60.0	806	2	US-08-193-829B-5
26	4328	60.0	806	2	US-09-766-678-5
27	4196	59.6	805	2	US-08-985-526-34

28	3327.5	47.2	788	1	US-08-232-538-15	Sequence 15, Appl
29	3327.5	47.2	788	1	US-08-786-164-15	Sequence 15, Appl
30	3248	46.1	764	2	US-09-142-956B-14	Sequence 14, Appl
31	3245	46.1	767	1	US-08-874-678-2	Sequence 2, Appl1
32	3245	46.1	767	2	US-08-643-839-2	Sequence 2, Appl1
33	3245	46.1	767	2	US-09-348-886-2	Sequence 2, Appl1
34	3245	46.1	767	2	US-10-105-901A-2	Sequence 2, Appl1
35	2792	39.6	668	1	US-08-232-538-13	Sequence 13, Appl
36	2792	39.6	668	1	US-08-786-164-13	Sequence 13, Appl
37	2746.5	39.0	1363	2	US-09-375-248-19	Sequence 19, Appl
38	2733.5	38.8	1368	1	US-08-874-678-34	Sequence 34, Appl
39	2733.5	38.8	1368	2	US-08-643-839-34	Sequence 34, Appl
40	2733.5	38.8	1368	2	US-09-348-886-34	Sequence 34, Appl
41	2733.5	38.8	1368	2	US-10-105-901A-34	Sequence 34, Appl
42	2694.5	38.2	1338	2	US-08-750-141A-3	Sequence 3, Appl1
43	2694.5	38.2	1338	2	US-09-119-014D-6	Sequence 6, Appl1
44	2691.5	38.2	1362	1	US-08-874-678-33	Sequence 33, Appl
45	2691.5	38.2	1362	2	US-08-643-839-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-08-443-861-2
; Sequence 2, Application US/08443861
; Patent No. 5851999
; GENERAL INFORMATION:
; APPLICANT: Ulrich, Axel
; APPLICANT: Rissau, Werner
; APPLICANT: Millauner, Birgit
; APPLICANT: Gazit, Aviv
; APPLICANT: Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; TITLE OF INVENTION: Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESSES:
; ADDRESSES: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/443,861
; FILING DATE: 22-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/193,829
; FILING DATE: 09-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-443-861-2
Query Match 99.6%; Score 7020; DB 1; Length 1367;
Best Local Similarity 99.9%; Pred. No. 0;

Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Db 181 WDESEIGFLPSYMIYAGVCFEAKINDETYOSIMYIVVVGYRIYDILSPHIEISA 240
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Db 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKKIVNRDVKPPGTVAKPLSTLTIESVT 300
Qy 301 KSDQGEYTCVASSSGMIRKNTFVRVHTKPIAFSGMKSLVEATVGSQVRIPVKYLSP 360
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Db 361 APDIKWYNGRPIESNYTMI VGEDELTIMEVTERDAGNTVILTNPI SMEKOSHMSLVN 420
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RESULT 2
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; Sequence 2, Application US/08193829B
; Patent No. 6177401
; GENERAL INFORMATION:
; APPLICANT: Ulrich, Axel
; APPLICANT: Milauer, Werner
; APPLICANT: Milauer, Birgit
; APPLICANT: Gazit, Aviv
; APPLICANT: Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; TITLE OF INVENTION: Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/193,829B
; FILING DATE: 09-FEB-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Cortuzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-193-829B-2
Query Match 99.6%; Score 7020; DB 2; Length 1367;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
1 MESKALLVALWFCVETRAASVGLTGFPLHPKSLSTOKDILITLANTTLQITCRGQRDD 60

```

Db 1 MESKALLAVALMFCVETRAASVGLTGDPLHPKSLTOKDILITLANTTLQITCRGORDLD 60
Qy 61 WLPNAPORSEERVLVTECGGSDIFCKTLTIPRVGNNTGAYKCYRVDIASTYYVYV 120
Db 61 WLPNAPORSEERVLVTECGGSDIFCKTLTIPRVGNNTGAYKCYRVDIASTYYVYV 120
Qy 121 RDYRSPFIASVDHGIYVITENKNTVYI PCRGSI SNLNVSLCARYPEKREVPDGNRIS 180
Db 121 RDYRSPFIASVDHGIYVITENKNTVYI PCRGSI SNLNVSLCARYPEKREVPDGNRIS 180
Qy 181 WSEIGFTLPSTYMI SYAGVFCFAKINDETYSIMYIVVVGRIYDIVILSPHEIELSA 240
Db 181 WSEIGFTLPSTYMI SYAGVFCFAKINDETYSIMYIVVVGRIYDIVILSPHEIELSA 240
Qy 241 GERLVNCTARTELNVGLFTWHSPPSKSHHKIVNRDVKPPPGVYAKMFLSTLTESYT 300
Db 241 GERLVNCTARTELNVGLFTWHSPPSKSHHKIVNRDVKPPPGVYAKMFLSTLTESYT 300
Qy 301 KSDQSEYTCVASSGRMIKRNRTFVRVHTKPIAFSGSMKSLVEATVGSQVRI PVKYLSTP 360
Db 301 KSDQSEYTCVASSGRMIKRNRTFVRVHTKPIAFSGSMKSLVEATVGSQVRI PVKYLSTP 360
Qy 361 APDIKMYRNGRPYESNYTMI VGEDELTIMEVTERDAGNTVYIITNPI SMKQSHMVS LVN 420
Db 361 APDIKMYRNGRPYESNYTMI VGEDELTIMEVTERDAGNTVYIITNPI SMKQSHMVS LVN 420
Qy 421 VPPQIGERKALISPMDSYOGTMO TLCTCTYANPPLHIIOMWQLEBACSYRPGQTS PVAC 480
Db 421 VPPQIGERKALISPMDSYOGTMO TLCTCTYANPPLHIIOMWQLEBACSYRPGQTS PVAC 480
Qy 481 KEMRVEDPFOGKNKIEVTKNQYALIEGKNKTSTLVICQANVSALYKCAINKAGREYV 540
Db 481 KEMRVEDPFOGKNKIEVTKNQYALIEGKNKTSTLVICQANVSALYKCAINKAGREYV 540
Qy 541 ISFHVIRGPEITVOPPAQPTOEBSVSLCTADRNTEFNITWYKLSQATSVMHGESLTPV 600
Db 541 ISFHVIRGPEITVOPPAQPTOEBSVSLCTADRNTEFNITWYKLSQATSVMHGESLTPV 600
Qy 601 CKNLALMKNLTGNTMSNSTNDILIIAFOVASLODQDVCASODKTKKRHCLVYQTLIL 660
Db 601 CKNLALMKNLTGNTMSNSTNDILIIAFOVASLODQDVCASODKTKKRHCLVYQTLIL 660
Qy 661 ERMAIMTGNLENQTTTIGETIEVTCPASGNPTPHITWFKDNETLVEDSGIYLRDGNRL 720
Db 661 ERMAIMTGNLENQTTTIGETIEVTCPASGNPTPHITWFKDNETLVEDSGIYLRDGNRL 720
Qy 721 TIRRVKEDGSLYTQACNVLCAPAEITLFIIEGAQEKTNLEVIILVGTAVIAMEFWLL 780
Db 721 TIRRVKEDGSLYTQACNVLCAPAEITLFIIEGAQEKTNLEVIILVGTAVIAMEFWLL 780
Qy 781 VIVLTVRANGELKTGYLSIVMPDDELPLDERCERL PYDASKNEFPDRILKLGKPLGR 840
Db 781 VIVLTVRANGELKTGYLSIVMPDDELPLDERCERL PYDASKNEFPDRILKLGKPLGR 840
Qy 841 GAFQGVIEADAFGIDKTACTKVAVMKLEKATHESEHRLMSELKILIIHGHILNVNLL 900
Db 841 GAFQGVIEADAFGIDKTACTKVAVMKLEKATHESEHRLMSELKILIIHGHILNVNLL 900
Qy 901 GACTYRGPBLNVIYEFCKFGNISTYLGRKRNFEVYKSKGARFROGKDYVGLSYDLKRR 960
Db 901 GACTYRGPBLNVIYEFCKFGNISTYLGRKRNFEVYKSKGARFROGKDYVGLSYDLKRR 960
Qy 961 LDSITSSQSSASGVEEKSLSDVVEEESSELYNDFLLEHLICYSFQVAAQMGFLASR 1020
Db 961 LDSITSSQSSASGVEEKSLSDVVEEESSELYNDFLLEHLICYSFQVAAQMGFLASR 1020
Qy 1021 KCIHRDLAARNILSEKVVVKICDGLARDIYKDPDYVRKGDARPLKMMAPETIFDRYV 1080
Db 1021 KCIHRDLAARNILSEKVVVKICDGLARDIYKDPDYVRKGDARPLKMMAPETIFDRYV 1080
Qy 1081 TIQSVMSFGVLWEIFSLIGASPYGVKIDEEFCRLKEGTRMRAADYTTPTMYQTM LDC 1140
Db 1081 TIQSVMSFGVLWEIFSLIGASPYGVKIDEEFCRLKEGTRMRAADYTTPTMYQTM LDC 1140

Qy 1141 WHEDPNORPSFSELVEHIGNLLQANAQODGKDYIVLPMSETLSMEBDSGLSPTSPVSCM 1200
Db 1141 WHEDPNORPSFSELVEHIGNLLQANAQODGKDYIVLPMSETLSMEBDSGLSPTSPVSCM 1200
Qy 1201 EEEVCDPKFHYDNTAGISHYLONSKRKSRPVSVKTFEDI PLEPEPVKVI PPDSQOTDSQM 1260
Db 1201 EEEVCDPKFHYDNTAGISHYLONSKRKSRPVSVKTFEDI PLEPEPVKVI PPDSQOTDSQM 1260
Qy 1261 VLASELKTLEDRNKLSPSGMMPKSKRESVASBGSNOTSGYQSGYHSDDTDTTYSSD 1320
Db 1261 VLASELKTLEDRNKLSPSGMMPKSKRESVASBGSNOTSGYQSGYHSDDTDTTYSSD 1320
Qy 1321 EAGLKMVDAVAHADSGTTLR 1341
Db 1321 EAGLKMVDAVAHADSGTTLR 1341

RESULT 3
US-09-766-678-2
Sequence 2, Application US/09766678
Patent No. 6872639
GENERAL INFORMATION:
APPLICANT: Ulrich, Axel
Riseau, Werner
Milauner, Birgit
Gazit, Aviv
Levitaki, Alex
TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular Endothelial Growth Factor
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/766,678
FILING DATE: 25-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/193,829
FILING DATE: 09-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-060
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: 1linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-766-678-2

Query Match 99.6%; Score 7020; DB 2; Length 1367;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
1 MESKALLAVALMFCVETRAASVGLTGDPLHPKSLTOKDILITLANTTLQITCRGORDLD 60

Db 1 MESKALLAVLWFCVETRAASVGLTGDPLHPPKLSTOKDILITLANTTLQITTCGQRDLD 60
Qy 61 WLMPNQRDSEBERVLVTECGGSDSIFCKTLTIPRVVNDGTGAYKCSYRDVDIASTVYVYV 120
Db 61 WLMPNQRDSEBERVLVTECGGSDSIFCKTLTIPRVVNDGTGAYKCSYRDVDIASTVYVYV 120
Qy 121 RDYSPFLIASVDQHGIVYITENKKTIVIPCRGISLNLNLSLCARYPEKRPVDPGRNIS 180
Db 121 RDYSPFLIASVDQHGIVYITENKKTIVIPCRGISLNLNLSLCARYPEKRPVDPGRNIS 180
Qy 181 WDSEIGFLPSYMTSYAGWVCEAKINDETQSYIVYVWGYRHYDYLSPHHELSA 240
Db 181 WDSEIGFLPSYMTSYAGWVCEAKINDETQSYIVYVWGYRHYDYLSPHHELSA 240
Qy 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIVNRDVKPPGTAVAKPLSTLTIESVT 300
Db 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIVNRDVKPPGTAVAKPLSTLTIESVT 300
Qy 301 KSDGERTCVASSSGMIRKARTFVARVHTKPFIAFGSGKSLVEATVGSQVRIPVKYLSYP 360
Db 301 KSDGERTCVASSSGMIRKARTFVARVHTKPFIAFGSGKSLVEATVGSQVRIPVKYLSYP 360
Qy 361 APDIKMYNNGRPISSENYTMIVGDELTIMEVTERDAGNTVILTNPISMEKSHWVSLVYN 420
Db 361 APDIKMYNNGRPISSENYTMIVGDELTIMEVTERDAGNTVILTNPISMEKSHWVSLVYN 420
Qy 421 VPPOIGERKALISPMDSYQGTMTCTCTVYANPLMHIQWYQWLEBACSYPGQTSYPAC 480
Db 421 VPPOIGERKALISPMDSYQGTMTCTCTVYANPLMHIQWYQWLEBACSYPGQTSYPAC 480
Qy 481 KEMRHVEDPQGNKIEVTKNOYALIEGKKTIVSTLVIOANVSALEYKEALINKGGRGRV 540
Db 481 KEMRHVEDPQGNKIEVTKNOYALIEGKKTIVSTLVIOANVSALEYKEALINKGGRGRV 540
Qy 541 ISFHVIRPELTIVOPPAOPEOESVSLCTADRNTFENLTYKKGSOATSVHMGESLTPV 600
Db 541 ISFHVIRPELTIVOPPAOPEOESVSLCTADRNTFENLTYKKGSOATSVHMGESLTPV 600
Qy 601 CKNDALMKNLGMTFMSNSTNDILIVAFQNASLQDGDYVCSAODKTKRKLCKLVKQILIL 660
Db 601 CKNDALMKNLGMTFMSNSTNDILIVAFQNASLQDGDYVCSAODKTKRKLCKLVKQILIL 660
Qy 661 ERMAPMTIGNLENQTTTIGETIEVTCPASGNPTHTITWFKONETLVEBSGIVLADGRNL 720
Db 661 ERMAPMTIGNLENQTTTIGETIEVTCPASGNPTHTITWFKONETLVEBSGIVLADGRNL 720
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Db 721 TIRVRKEDGGLYTCQACNVLCARAEFLFIIEGAQEKTNLEVIILVGTAVIANFEMULL 780
Qy 781 VIVLRVYRANEGELKTGYLSIYMDPDELPLDERCERLPYDASIKWEPFRDLKLGKPLGR 840
Db 781 VIVLRVYRANEGELKTGYLSIYMDPDELPLDERCERLPYDASIKWEPFRDLKLGKPLGR 840
Qy 841 GARFOVLEADAFGIDKATCTCTVAVKMLKEGATSEHRAHMLSELKILIHIGHIANVNL 900
Db 841 GARFOVLEADAFGIDKATCTCTVAVKMLKEGATSEHRAHMLSELKILIHIGHIANVNL 900
Qy 901 GACTKPGGFLWVYVEFCFKNLSTYLKGRNEFVPYKSGARFQSGKDYVELSLVDLKR 960
Db 901 GACTKPGGFLWVYVEFCFKNLSTYLKGRNEFVPYKSGARFQSGKDYVELSLVDLKR 960
Qy 961 LDSITSSGSSASGFEKESLSDVEEBEASELYKDFLTLEHLIYCSFOVAKGMEFLASR 1020
Db 961 LDSITSSGSSASGFEKESLSDVEEBEASELYKDFLTLEHLIYCSFOVAKGMEFLASR 1020
Qy 1021 KCIHRDLAARNIILSEKKNVVICDFGLARDIYKPDYRKDALPLKMAPEITIPDRVY 1080
Db 1021 KCIHRDLAARNIILSEKKNVVICDFGLARDIYKPDYRKDALPLKMAPEITIPDRVY 1080
Qy 1081 TIQSDVMSFGVLWEIFSLGASPYGVKIDEEFCRLKEGTRMAPDVTTEMTQTMDC 1140
Db 1081 TIQSDVMSFGVLWEIFSLGASPYGVKIDEEFCRLKEGTRMAPDVTTEMTQTMDC 1140

Qy 1141 WHEDPNRPSFSELVEHLGNLQANAQODGKDYIVLPMSETLSNEBDSGLSLPTSPVSCM 1200
Db 1141 WHEDPNRPSFSELVEHLGNLQANAQODGKDYIVLPMSETLSNEBDSGLSLPTSPVSCM 1200
Qy 1201 EEEVCDPKFHYDNTAGISHLONSKRKSRVSVKTFEDIPLBEPKVVITPDDSGTDSGM 1260
Db 1201 EEEVCDPKFHYDNTAGISHLONSKRKSRVSVKTFEDIPLBEPKVVITPDDSGTDSGM 1260
Qy 1261 VLASEELKLEDRKRLSPSFCGMMPKSRBESVASEGNSQTSYGSGYHSDPTDPTVYSSD 1320
Db 1261 VLASEELKLEDRKRLSPSFCGMMPKSRBESVASEGNSQTSYGSGYHSDPTDPTVYSSD 1320
Qy 1321 EAGLLKMWDAVHADSGTTLR 1341
Db 1321 EAGLLKMWDAVHADSGTTLR 1341

RESULT 4
US-07-813-593-4
Sequence 4, Application US/07813593
Patent No. 5185438
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMCLONE SYSTEMS INCORPORATED
STREET: 180 VARICK STREET
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/813,593
FILING DATE: 19920415
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SRO ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-813-593-4
Query Match 99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
Qy 1 MESKALLAVLWFCVETRAASVGLTGDPLHPPKLSTOKDILITLANTTLQITTCGQRDLD 60
|||||

Db 1 MESKGLAVALMFCVETRAASVGLPGDFLHPKLSOKDILTLTANTTLQITCRGRDL 60
Qy 61 WLPNAPQDSEBRVLVTECGGDSIFCKTLTIPRVVNDTGAYKCSYRPVDIASTYYV 120
Db 61 WLPNAPQDSEBRVLVTECGGDSIFCKTLTIPRVVNDTGAYKCSYRPVDIASTYYV 120
Qy 121 RDRSPFLASVDQHGIVITENKNTVIPCGRSISNLNLSICARYPEKRPVDPGRIS 180
Db 121 RDRSPFLASVDQHGIVITENKNTVIPCGRSISNLNLSICARYPEKRPVDPGRIS 180
Qy 181 WSEIGFTLPSYMIISVAGNVFCEAKINDTQSIMIYVVGRIYDVLSPHELELSA 240
Db 181 WSEIGFTLPSYMIISVAGNVFCEAKINDTQSIMIYVVGRIYDVLSPHELELSA 240
Qy 241 GEKLVNCTARTELNVLGDFTWHSPPSKSHKKIVRDRVPPPGTVAKMFLSTLTESYT 300
Db 241 GEKLVNCTARTELNVLGDFTWHSPPSKSHKKIVRDRVPPPGTVAKMFLSTLTESYT 300
Qy 301 KSDQSEYTCVASSGRMICKNRTFVRVHTKPIAFSGSKSLVEATVSGVRI PVKXLSYP 360
Db 301 KSDQSEYTCVASSGRMICKNRTFVRVHTKPIAFSGSKSLVEATVSGVRI PVKXLSYP 360
Qy 361 APDICKMYRGRPIESYTYMIVGDELTIMEYTERDAGNTVILITNPISMKQSHMYSLVN 420
Db 361 APDICKMYRGRPIESYTYMIVGDELTIMEYTERDAGNTVILITNPISMKQSHMYSLVN 420
Qy 421 VPOIGEKALISPMDSYOYGTWOTLCTYANPPLHHIQMWOLEBACSYRGQOTSYPAC 480
Db 421 VPOIGEKALISPMDSYOYGTWOTLCTYANPPLHHIQMWOLEBACSYRGQOTSYPAC 480
Qy 481 KEMRVEDPQGNKIEVTKNOYALIEGKNKTVSTLVIOANYSALYKCEAINKAGREYV 540
Db 481 KEMRVEDPQGNKIEVTKNOYALIEGKNKTVSTLVIOANYSALYKCEAINKAGREYV 540
Qy 541 ISFHVIRGEPEITVOAPAQPTBOESVSLCTADRNTEFNITWYKLSQATSVMGESLTPV 600
Db 541 ISFHVIRGEPEITVOAPAQPTBOESVSLCTADRNTEFNITWYKLSQATSVMGESLTPV 600
Qy 601 CNLALMKNLTWMSNSTNDILIVAFOASLODQDYCSQODKTKRHCLVNL 660
Db 601 CNLALMKNLTWMSNSTNDILIVAFOASLODQDYCSQODKTKRHCLVNL 660
Qy 661 ERMAEMITGNLENQTTIGETIEVTCPASGNPTPHITWFKDNETHVEDSGIVLRGNRL 720
Db 661 ERMAEMITGNLENQTTIGETIEVTCPASGNPTPHITWFKDNETHVEDSGIVLRGNRL 720
Qy 721 TIRRVKEDGGLYTQACNVLCARAEITLFIIEGAQEKTNLEVIILVGTAVIAMFPM 780
Db 721 TIRRVKEDGGLYTQACNVLCARAEITLFIIEGAQEKTNLEVIILVGTAVIAMFPM 780
Qy 781 VILVLTVRANGELKTGYLSTVMDPDELPLDERCERLPYDASKNEFPDRILKQKPLCR 840
Db 781 VILVLTVRANGELKTGYLSTVMDPDELPLDERCERLPYDASKNEFPDRILKQKPLCR 840
Qy 841 GAFQGVIBADAFIGIDTATCTVAVMMLKEGATSEHRLMSELKILIHIGHLNVNLL 900
Db 841 GAFQGVIBADAFIGIDTATCTVAVMMLKEGATSEHRLMSELKILIHIGHLNVNLL 900
Qy 901 GACTKPGPBLMIVIEFCFKGNLSTYLRGRNRFVYKSGARFROGKDYVGLSYDLKRR 960
Db 901 GACTKPGPBLMIVIEFCFKGNLSTYLRGRNRFVYKSGARFROGKDYVGLSYDLKRR 960
Qy 961 LOSTSSSSSSASSGVEEKSLSLSDVEEESSELYDPLLEHLICYSQVYAKMEFLASR 1020
Db 961 LOSTSSSSSSASSGVEEKSLSLSDVEEESSELYDPLLEHLICYSQVYAKMEFLASR 1020
Qy 1021 KCIHDLAARNILSEKVVVVICDFGLARDIYKDPYVYKGGARLPKMMAPETIFDRY 1080
Db 1021 KCIHDLAARNILSEKVVVVICDFGLARDIYKDPYVYKGGARLPKMMAPETIFDRY 1080
Qy 1081 TIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTMRAPDYTTPEMYOTMLDC 1140
Db 1081 TIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTMRAPDYTTPEMYOTMLDC 1140

Qy 1141 WHEENQRPSPFSELVEHLGNLLQANAQODGKDYI VLPMSSETLSMEEDSLSTPTSPVSCM 1200
Db 1141 WHEENQRPSPFSELVEHLGNLLQANAQODGKDYI VLPMSSETLSMEEDSLSTPTSPVSCM 1200
Qy 1201 EEEVCDPKFHYDNTAGISHYLQNSKRSPVSKTFEDI PLBEPVVKYIPDQSOTDSGM 1260
Db 1201 EEEVCDPKFHYDNTAGISHYLQNSKRSPVSKTFEDI PLBEPVVKYIPDQSOTDSGM 1260
Qy 1261 VLAASELKTLEDNRNKLSPSGMMPKSKRESVASEGSGNOTSGYSGYHSDDTDTTVSSD 1320
Db 1261 VLAASELKTLEDNRNKLSPSGMMPKSKRESVASEGSGNOTSGYSGYHSDDTDTTVSSD 1320
Qy 1321 EAGLKMYDAVAHADSGTTLR 1341
Db 1321 EAGLKMYDAVAHADSGTTLQ 1341
RESULT 5
US-07-977-451-6
Sequence 6, Application US/07977451
Patent No. 5270458
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varicle Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/977,451
FILING DATE: 19921119
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US UNASSIGNED
FILING DATE: 12-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Feit, Irving N.
REGISTRATION NUMBER: 28,601

REFERENCE/DOCKET NUMBER: LEM-3-7P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-645-1405
 TELEFAX: 212-645-2054
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1367 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-07-977-451-6

Query Match 99.3%; Score 6994; DB 1; Length 1367;
 Basic Local Similarity 99.6%; Pred. No. 0;
 Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy	1	MESKALVALMFCVETRAASVGLTGDPLHPKLSLSTQDILITLANITLQITCRGQRLD	60
Db	1	MESKGLVALMFCVETRAASVGLTGDPLHPKLSLSTQDILITLANITLQITCRGQRLD	60
Qy	61	WLPNPAQSDSEERVLVTECGGDSIFCKTLTIPRVVNDTGAYKCSYRDVDAIVVYV	120
Db	61	WLPNPAQSDSEERVLVTECGGDSIFCKTLTIPRVVNDTGAYKCSYRDVDAIVVYV	120
Qy	121	RDYSPFPLASVSDQGIYITENKKTIVIPCRGSI SMLANVSLCARYEKAFVDPGNRIS	180
Db	121	RDYSPFPLASVSDQGIYITENKKTIVIPCRGSI SMLANVSLCARYEKAFVDPGNRIS	180
Qy	181	WDSEIGFLPSYMTSYAGNVCEAKINDETQSI MYIVVVVGYRHYDYLSPHPEIELSA	240
Db	181	WDSEIGFLPSYMTSYAGNVCEAKINDETQSI MYIVVVVGYRHYDYLSPHPEIELSA	240
Qy	241	GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIVNRDVKPPGTAVAKPLSTLTIESVT	300
Db	241	GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIVNRDVKPPGTAVAKPLSTLTIESVT	300
Qy	301	KSDGERTCVASSSGRMIGKRTFVARVHTKRPFIASGSKSLVEATVGSQVRI PVKYLSYP	360
Db	301	KSDGERTCVASSSGRMIGKRTFVARVHTKRPFIASGSKSLVEATVGSQVRI PVKYLSYP	360
Qy	361	APDIKMYNRGRPIESNYTMIAGDELTIMEVTERDAGNTVLTLPISMEKSHVSLVYN	420
Db	361	APDIKMYNRGRPIESNYTMIAGDELTIMEVTERDAGNTVLTLPISMEKSHVSLVYN	420
Qy	421	VPPIGEKALLSPMDSYQYGMQTLTCTVYANPPLHNIQWYMOLEACSYRPGQTSYAC	480
Db	421	VPPIGEKALLSPMDSYQYGMQTLTCTVYANPPLHNIQWYMOLEACSYRPGQTSYAC	480
Qy	481	KEMHVEDFOGANKIEVTKNQYALIEGKNTVSTLVIOANVSALYKCEALINKAGRGERV	540
Db	481	KEMHVEDFOGANKIEVTKNQYALIEGKNTVSTLVIOANVSALYKCEALINKAGRGERV	540
Qy	541	ISFHVIRGEPTTVPAQPTQESVSLCTADRNTEFLTYKKGSAQTSVHMESESLTPV	600
Db	541	ISFHVIRGEPTTVPAQPTQESVSLCTADRNTEFLTYKKGSAQTSVHMESESLTPV	600
Qy	601	CKNDALMKNLGTWFSNSTNDILIVAFQNASLQDQGVVCSAODKTKKRRCLVKQLITL	660
Db	601	CKNDALMKNLGTWFSNSTNDILIVAFQNASLQDQGVVCSAODKTKKRRCLVKQLITL	660
Qy	661	ERMAPMTIGLNEQTTTIGETIEVTCPASGNPTPHITWFKONEITLVEDSGIVLRDGNRL	720
Db	661	ERMAPMTIGLNEQTTTIGETIEVTCPASGNPTPHITWFKONEITLVEDSGIVLRDGNRL	720
Qy	721	TIRVRKEDDGLYTCQANVIGCARAEFLFTIEGQEKTNLEVIIVGTAIVANFPWLL	780
Db	721	TIRVRKEDDGLYTCQANVIGCARAEFLFTIEGQEKTNLEVIIVGTAIVANFPWLL	780
Qy	781	VIVLRVVRANEGELKTYLSIVMDPDELPLDERCERLPYDASKWEFFRDLTKGKPLGR	840
Db	781	VIVLRVVRANEGELKTYLSIVMDPDELPLDERCERLPYDASKWEFFRDLTKGKPLGR	840
Qy	841	GAFQVIEADAFGIDKTAICTVAVVKMKEGATSEHRALMSELKILIHGHNLVNVLL	900

Db	841	GAFQVIEADAFGIDKTAICTVAVVKMKEGATSEHRALMSELKILIHGHNLVNVLL	900
Qy	901	GACTKPGPLMVIYEFCKFGNLSTYLRGKNEFPYPSKGRFPOGKDYVELSVDLRR	960
Db	901	GACTKPGPLMVIYEFCKFGNLSTYLRGKNEFPYPSKGRFPOGKDYVELSVDLRR	960
Qy	961	LDSITSSQSSASGFEVEKSLSDVEEBASELYKDFLTLEHLICYSFOVAKMEFLASR	1020
Db	961	LDSITSSQSSASGFEVEKSLSDVEEBASELYKDFLTLEHLICYSFOVAKMEFLASR	1020
Qy	1021	KCHRDLAARVITLSEKNVYKICDFGLARDYKDPDYVRKCDARLPLKMAPEITFDKRV	1080
Db	1021	KCHRDLAARVITLSEKNVYKICDFGLARDYKDPDYVRKCDARLPLKMAPEITFDKRV	1080
Qy	1081	TIGSDVMSFGVLMWEISLGSAPYGVKIDEEFCRLKEGTRMAPDYTTBEMQTMDC	1140
Db	1081	TIGSDVMSFGVLMWEISLGSAPYGVKIDEEFCRLKEGTRMAPDYTTBEMQTMDC	1140
Qy	1141	WHEDPNRPSFSELVEHLGNLQANAOQDKDYIVLPMSETLSMEEDSGLSPTS PVS CM	1200
Db	1141	WHEDPNRPSFSELVEHLGNLQANAOQDKDYIVLPMSETLSMEEDSGLSPTS PVS CM	1200
Qy	1201	EEBEVCPKRYHNTAGISHYLQNSKRSRPSVYKTFEDIPLEBPYKVIIPDDSCQDSGM	1260
Db	1201	EEBEVCPKRYHNTAGISHYLQNSKRSRPSVYKTFEDIPLEBPYKVIIPDDSCQDSGM	1260
Qy	1261	VLAASELKTLEDRKLSPSFGGMMPSKRSRESVASEGSNQTSGYSGYHSDDTTIVYSSD	1320
Db	1261	VLAASELKTLEDRKLSPSFGGMMPSKRSRESVASEGSNQTSGYSGYHSDDTTIVYSSD	1320
Qy	1321	EAGLLKRVDAVHADSGTTLR	1341
Db	1321	EAGLLKRVDAVHADSGTTLQ	1341

RESULT 6
 US-07-946-507-4
 Sequence 4, Application US/07946507
 Patent No. 5283354
 GENERAL INFORMATION:
 APPLICANT: Lemischka, Ihor R.
 TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
 TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: IMCONE SYSTEMS INCORPORATED
 STREET: 180 VARICK STREET
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: U.S.A.
 ZIP: 10014
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/946,507
 FILING DATE: 19920917
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/813,593
 FILING DATE: 24-DEC-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/793,065
 FILING DATE: 15-NOV-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/728,913
 FILING DATE: 28-JUN-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/679,666
 FILING DATE: 02-APR-1991

ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-946-507-4

Query Match 99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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QY 1 MESKLLAVLWFCVETRAASVGLTGDPLHPPKLSQKDLITLTANTTLQITCRGQRLD 60
DB 1 MESKGLLAVLWFCVETRAASVGLPGDFLHPPKLSQKDLITLTANTTLQITCRGQRLD 60
QY 61 WMPNPAQPSERERVLTECGGSDSIFCKTLTPRVVGNDTGAYKCSYRDVDIASTYVVY 120
DB 61 WMPNPAQPSERERVLTECGGSDSIFCKTLTPRVVGNDTGAYKCSYRDVDIASTYVVY 120
QY 121 RDRSPFLASVSDQGIYITENKNTVYIPCRGISNLNVLSCARPEKRPVPGNRIS 180
DB 121 RDRSPFLASVSDQGIYITENKNTVYIPCRGISNLNVLSCARPEKRPVPGNRIS 180
QY 181 WDSEIGFTLPSYMSYAGWVFCBAKINDETYSIMYIVVVGRIYDVLSPPHELSA 240
DB 181 WDSEIGFTLPSYMSYAGWVFCBAKINDETYSIMYIVVVGRIYDVLSPPHELSA 240
QY 241 GEKVLNCTARTLAVGLDFTWSPSPSKSHKKIYNRDYKPPPGVAAKFLSTLTIESVT 300
DB 241 GEKVLNCTARTLAVGLDFTWSPSPSKSHKKIYNRDYKPPPGVAAKFLSTLTIESVT 300
QY 301 KSDQGEYTCVASSGMIKRNRTFVHTKPIAFSGMKSLVEATVGSQVRIPVYVLSVP 360
DB 301 KSDQGEYTCVASSGMIKRNRTFVHTKPIAFSGMKSLVEATVGSQVRIPVYVLSVP 360
QY 361 APDIKMYANGRIEESNYTMIVDELTIMEVTERDAGNTVILTNPISEKOSHMSLVN 420
DB 361 APDIKMYANGRIEESNYTMIVDELTIMEVTERDAGNTVILTNPISEKOSHMSLVN 420
QY 421 VPQIGEKALLSPMDSYQYGTMTLCTVYANPPLHHIQWVQLEBACSYPRGQTSYAC 480
DB 421 VPQIGEKALLSPMDSYQYGTMTLCTVYANPPLHHIQWVQLEBACSYPRGQTSYAC 480
QY 481 KEMRWVEDFOGNGKEVTKNOVALLEGKNTVSTVIOANVASALYKEALINKAGRGRRV 540
DB 481 KEMRWVEDFOGNGKEVTKNOVALLEGKNTVSTVIOANVASALYKEALINKAGRGRRV 540
QY 541 ISFHVIRPEITVQPAQPTQESVSLCTADRNTFENLTWYKGSQATSVHMGESLTPV 600
DB 541 ISFHVIRPEITVQPAQPTQESVSLCTADRNTFENLTWYKGSQATSVHMGESLTPV 600
QY 601 CKNDALMLKNGTMSNSTNDILLYAFONASIQDGDYVCSAODKTKKRRHCLVYKQILIL 660
DB 601 CKNDALMLKNGTMSNSTNDILLYAFONASIQDGDYVCSAODKTKKRRHCLVYKQILIL 660
QY 661 ERMAPMITGNLENOTTIGETIEVTCPASGNPTPHITWPKNETLVEBSGVLBDGNRL 720
DB 661 ERMAPMITGNLENOTTIGETIEVTCPASGNPTPHITWPKNETLVEBSGVLBDGNRL 720
QY 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMPFWLL 780
DB 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMPFWLL 780
QY 781 VIVRTVGRANEGELKTYLSIIVMDDELPLDERCERLPYASAKWEPFRDLKLGKPIGR 840
DB 781 VIVRTVGRANEGELKTYLSIIVMDDELPLDERCERLPYASAKWEPFRDLKLGKPIGR 840
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DB 781 VILVRTVGRANEGELKTYLSIIVMDDELPLDERCERLPYASAKWEPFRDLKLGKPIGR 840
QY 841 GAFGOVTEADARGIDTATCKTVAAVMLEKGAHSEHRLMSELKTLIHIGHILNVNLL 900
DB 841 GAFGOVTEADARGIDTATCKTVAAVMLEKGAHSEHRLMSELKTLIHIGHILNVNLL 900
QY 901 GACTKRGGLMVIIVECFKGNLSTYLRGRNRFVPYKSGARFROGKDYVGLSYDLKRR 960
DB 901 GACTKRGGLMVIIVECFKGNLSTYLRGRNRFVPYKSGARFROGKDYVGLSYDLKRR 960
QY 961 LDISSSSGSSAGSVVEEKSLSDVVEEASEELYDFLTLEHLICYSFQVAKMEFLASR 1020
DB 961 LDISSSSGSSAGSVVEEKSLSDVVEEASEELYDFLTLEHLICYSFQVAKMEFLASR 1020
QY 1021 KCIHRDLAARNLILSEKNVYKICDGLARDIYKDDYVRKGAARLPDKMAEETIFDRY 1080
DB 1021 KCIHRDLAARNLILSEKNVYKICDGLARDIYKDDYVRKGAARLPDKMAEETIFDRY 1080
QY 1081 TIQSDVMSFGVLMSEIFSLGASPYPGVKIDEEFCRLKEGTRAPADYTPPMYOTMLDC 1140
DB 1081 TIQSDVMSFGVLMSEIFSLGASPYPGVKIDEEFCRLKEGTRAPADYTPPMYOTMLDC 1140
QY 1141 WHEDNQRPSFSELVEHLGNLILQANAAQDGKQYIVLPMSETLSMEEDSGLSPTSVPSCM 1200
DB 1141 WHEDNQRPSFSELVEHLGNLILQANAAQDGKQYIVLPMSETLSMEEDSGLSPTSVPSCM 1200
QY 1201 EEEVCDKPFHNDNAGISHYLQNSKRKSRPVSYTTFEDIPLEEBEVKVIIPDSDQDSGM 1260
DB 1201 EEEVCDKPFHNDNAGISHYLQNSKRKSRPVSYTTFEDIPLEEBEVKVIIPDSDQDSGM 1260
QY 1261 VLASELKTLEDRNKLSPSGMMPKSKRESVYASGSGNOTSGYQSGYSDDTDTTVYSSD 1320
DB 1261 VLASELKTLEDRNKLSPSGMMPKSKRESVYASGSGNOTSGYQSGYSDDTDTTVYSSD 1320
QY 1321 EAGLIKMDAAVHADSGTTLR 1341
DB 1321 EAGLIKMDAAVHADSGTTLR 1341
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RESULT 7
US-08-252-517-6
Sequence 6, Application US/08252517
Patent No. 5548065
GENERAL INFORMATION:
APPLICANT: Lemischka, Thor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/252,517
FILING DATE: 31-OCT-1994
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEW-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-252-517-6

Query Match 99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0; Mismatches 3; Indels 0; Gaps 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 MESKALLAVALMFCVETRAASVGLTDFLHPKSLSTOKDILITLANTTLQITCRGORDLD 60
DB 1 MESKGLAVALMFCVETRAASVGLTDFLHPKSLSTOKDILITLANTTLQITCRGORDLD 60
QY 61 WLWPAQDSERVLVTECGGSDSIFCKTLITPRVGNLTGAYKCSYADVIASTVYVYV 120
DB 61 WLWPAQDSERVLVTECGGSDSIFCKTLITPRVGNLTGAYKCSYADVIASTVYVYV 120
QY 121 RDYSPFIAASYDQHGIVYITENKKTIVIPCRGSIUNLANSYLCARYEKKFVPDGNRIS 180
DB 121 RDYSPFIAASYDQHGIVYITENKKTIVIPCRGSIUNLANSYLCARYEKKFVPDGNRIS 180
QY 121 RDYSPFIAASYDQHGIVYITENKKTIVIPCRGSIUNLANSYLCARYEKKFVPDGNRIS 180
DB 121 RDYSPFIAASYDQHGIVYITENKKTIVIPCRGSIUNLANSYLCARYEKKFVPDGNRIS 180
QY 181 WDSIEGFTLPSYMI SYAGVFCCEAKINDEYOSIMYIVVVVGYRIYDVLSPPHIELISA 240
DB 181 WDSIEGFTLPSYMI SYAGVFCCEAKINDEYOSIMYIVVVVGYRIYDVLSPPHIELISA 240
QY 241 GEKVLNLTATTELNVGLDFTWHSPPSKSHHKIIVNRVYKPPGTVAMFSTLTIEBVT 300
DB 241 GEKVLNLTATTELNVGLDFTWHSPPSKSHHKIIVNRVYKPPGTVAMFSTLTIEBVT 300
QY 241 GEKVLNLTATTELNVGLDFTWHSPPSKSHHKIIVNRVYKPPGTVAMFSTLTIEBVT 300
DB 241 GEKVLNLTATTELNVGLDFTWHSPPSKSHHKIIVNRVYKPPGTVAMFSTLTIEBVT 300
QY 301 KSDQGEYTCVASSGSMIKGRNTFVRHTKPFIAFGSKMSLVEATVGSQVAILPYKYLSTP 360
DB 301 KSDQGEYTCVASSGSMIKGRNTFVRHTKPFIAFGSKMSLVEATVGSQVAILPYKYLSTP 360
QY 361 APDIKWYRNGRPISNSYTMIVGDELTIMETERDAGNTVILITNPISMEKOSHWSLVVN 420
DB 361 APDIKWYRNGRPISNSYTMIVGDELTIMETERDAGNTVILITNPISMEKOSHWSLVVN 420
QY 421 VPPQIGKALISPMDSYOGTMQITCTVYANPPLHITQWMOLEACSYRPGQTSYPAC 480
DB 421 VPPQIGKALISPMDSYOGTMQITCTVYANPPLHITQWMOLEACSYRPGQTSYPAC 480
QY 481 KEMHVEDFOGANKIETVKNOYALIEGKNTVSTLVIOANVVALYKCEALINKAGRGGRV 540
DB 481 KEMHVEDFOGANKIETVKNOYALIEGKNTVSTLVIOANVVALYKCEALINKAGRGGRV 540

QY 541 ISFHVIRGEITVQPAAPTEQESVSLCTADRENTFENTWYKLGSOATSVHMGSLTPV 600
DB 541 ISFHVIRGEITVQPAAPTEQESVSLCTADRENTFENTWYKLGSOATSVHMGSLTPV 600
QY 601 CKNIDALMKNGTMFSNSTDILLVAFONASLOQSGDYVCAOKTKTKKRCILYKQILIL 660
DB 601 CKNIDALMKNGTMFSNSTDILLVAFONASLOQSGDYVCAOKTKTKKRCILYKQILIL 660
QY 661 ERMAPMTGNLENOTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGVLBDGNRL 720
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DB 721 TIRVRKEDGGLYTCQACNVLCARAEFTLFIIEGAQETNLEVIILVGTAVIAMFWILL 780
QY 781 VIVARTKGRANEGELTKGYLSIYNDPDELPLDERCERLPYDASKWEPDRDLKGLPLGR 840
DB 781 VIVARTKGRANEGELTKGYLSIYNDPDELPLDERCERLPYDASKWEPDRDLKGLPLGR 840
QY 841 GAFQGVTEADAFGIDKTATCTVAVKMLKEGATSEHRALMSELKILIHGHILNVVLL 900
DB 841 GAFQGVTEADAFGIDKTATCTVAVKMLKEGATSEHRALMSELKILIHGHILNVVLL 900
QY 901 GACTKPGPIMVIVEPCKFGNLSTYLRGKNEFVYPYKSGARFPOGKDYVELSVDLKRR 960
DB 901 GACTKPGPIMVIVEPCKFGNLSTYLRGKNEFVYPYKSGARFPOGKDYVELSVDLKRR 960
QY 961 LDSITSSOSASGSGFVEKSLSDVEEESAEBELKYDLTLEHLIYSPQVAKGMEPLASR 1020
DB 961 LDSITSSOSASGSGFVEKSLSDVEEESAEBELKYDLTLEHLIYSPQVAKGMEPLASR 1020
QY 1021 KCIHRDLAARNIILSEKNVYKICDFGLARDIYKDPDYVRKGDARLPLKMAPEITIPDRVY 1080
DB 1021 KCIHRDLAARNIILSEKNVYKICDFGLARDIYKDPDYVRKGDARLPLKMAPEITIPDRVY 1080
QY 1081 TIQSDVMSFGVLLWEIFSLGASPYGVKIDEEFCRLKEGTRMDAPDYTTPEMYQTMIDC 1140
DB 1081 TIQSDVMSFGVLLWEIFSLGASPYGVKIDEEFCRLKEGTRMDAPDYTTPEMYQTMIDC 1140
QY 1141 WHEDPNRPSFSELVEHLGNLQANNAQODGDYVLPMSSETLSMEBSGSLPSPVSCM 1200
DB 1141 WHEDPNRPSFSELVEHLGNLQANNAQODGDYVLPMSSETLSMEBSGSLPSPVSCM 1200
QY 1201 EEEBVCDFKHYDNTAGISHYLQNSKRSRPVSVKTEFEDIPLEBPEVYVLPDDSQTDSGM 1260
DB 1201 EEEBVCDFKHYDNTAGISHYLQNSKRSRPVSVKTEFEDIPLEBPEVYVLPDDSQTDSGM 1260
QY 1261 VLAHEELKTLBDRNKLSPSFGMMPSKRSRESVASSEGSNQTSGYSGYHSDDTDTTVVSSD 1320
DB 1261 VLAHEELKTLBDRNKLSPSFGMMPSKRSRESVASSEGSNQTSGYSGYHSDDTDTTVVSSD 1320
QY 1321 EAGILKNVDAVAHDSGTTLR 1341
DB 1321 EAGILKNVDAVAHDSGTTLR 1341

RESULT 8
US-07-906-397A-6
Sequence 6, Application US/07906397A
Patent No. 5621090
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: IMCLONE SYSTEMS INCORPORATED
STREET: 180 VARICK STREET
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: U.S.A.
ZIP: 10014

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/906,397A
; FILING DATE: 19920626
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/813,593
; FILING DATE: 24-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/793,065
; FILING DATE: 15-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/728,913
; FILING DATE: 28-JUN-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/679,666
; FILING DATE: 02-APR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Felt, Irving N.
; REGISTRATION NUMBER: 28,601
; REFERENCE/DOCKET NUMBER: LEM-3-PPPPP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-645-1405
; TELEFAX: 212-645-2054
; INFORMATION FOR SEQ. ID NO.: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1367 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-906-397A-6

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Query Match 99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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QY 1 MESKLLVALMFCVETRAASVGLGDFLHPKLSLQKQILITLANTLTQTTCRGQRDL 60
DB 1 MESKLLVALMFCVETRAASVGLGDFLHPKLSLQKQILITLANTLTQTTCRGQRDL 60
QY 61 WLMPAQRDSEERVLVTECGGDSIFCKTLTIPIVVGNDTGAYKCSYRDPVDIASTVYV 120
DB 61 WLMPAQRDSEERVLVTECGGDSIFCKTLTIPIVVGNDTGAYKCSYRDPVDIASTVYV 120
QY 121 RDYRSPFIASVDQHGIVITENKNTVIPCGRSISMLNVLCAARYPEKRFVPGNRIS 180
DB 121 RDYRSPFIASVDQHGIVITENKNTVIPCGRSISMLNVLCAARYPEKRFVPGNRIS 180
QY 181 WDESEGLFLPSYMIYAGNVFCEAKINDETYOSIMYIVVVGIRIYDVILSPHEIELSA 240
DB 181 WDESEGLFLPSYMIYAGNVFCEAKINDETYOSIMYIVVVGIRIYDVILSPHEIELSA 240
QY 241 GEKLVANTCTARTELNVGLDFTWSPSPSKSHKKIYNRDIKPPGVAAMKFLSTLIEEST 300
DB 241 GEKLVANTCTARTELNVGLDFTWSPSPSKSHKKIYNRDIKPPGVAAMKFLSTLIEEST 300
QY 301 KSDQGEYTCVASSGMIKRNRTFVRVHTKPIAFSGSKSLVEATVGSQVRIPIVYLSYP 360
DB 301 KSDQGEYTCVASSGMIKRNRTFVRVHTKPIAFSGSKSLVEATVGSQVRIPIVYLSYP 360
QY 361 APDIKYNRGRPISENYTMIVDELTIMETVRDGNVTVIIITNPISMEKSHMVSIVN 420
DB 361 APDIKYNRGRPISENYTMIVDELTIMETVRDGNVTVIIITNPISMEKSHMVSIVN 420
QY 421 VPPQIGERKALISPMOSYOGTQTLCTCYANPPLHHIQMWQMLEASQSYRGQTSYPAC 480
DB 421 VPPQIGERKALISPMOSYOGTQTLCTCYANPPLHHIQMWQMLEASQSYRGQTSYPAC 480
QY 481 KEWRHVEDFQGGNKIEVTIKNOYALIEGKNKTVSTLVIOAANVSALYKCEAINKAGGERV 540

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DB 481 KEWRHVEDFQGGNKIEVTIKNOYALIEGKNKTVSTLVIOAANVSALYKCEAINKAGGERV 540
QY 541 ISFHVIRGEPIYQPAQPTQESVSLCTADANTENITWYKLSQATSVMHGESLTV 600
DB 541 ISFHVIRGEPIYQPAQPTQESVSLCTADANTENITWYKLSQATSVMHGESLTV 600
QY 601 CKNLDAIYKNGTMTFNSINDILIVAFONASIDODQDYCSAQDKTKKRBHCLVKQLIL 660
DB 601 CKNLDAIYKNGTMTFNSINDILIVAFONASIDODQDYCSAQDKTKKRBHCLVKQLIL 660
QY 661 EEMAPWITGNLENQTTIGETIEVTCPASGNPTPHITWPKDNETLVEDSGIVLRDGNRL 720
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QY 721 TIRRAKEDGGIYTCQACNVLCARAEYTFIEGAQEKTNLYVIIIVGAVIAMPFWLL 780
DB 721 TIRRAKEDGGIYTCQACNVLCARAEYTFIEGAQEKTNLYVIIIVGAVIAMPFWLL 780
QY 781 VIVLRTVKRANEGELKTGYLSIVMPDDELPLDERCERLPIYDASKMEFPDRILKGLR 840
DB 781 VIVLRTVKRANEGELKTGYLSIVMPDDELPLDERCERLPIYDASKMEFPDRILKGLR 840
QY 841 GAFQVTEADAFGIDKTATCTVAVKMLKEGATSHSRALMSELKILIHIGHILNVNLL 900
DB 841 GAFQVTEADAFGIDKTATCTVAVKMLKEGATSHSRALMSELKILIHIGHILNVNLL 900
QY 901 GACTPGGFLMYIVFECFKGNISTYLGRKRNFPYKSGARPROGKDYVGLSVLTKR 960
DB 901 GACTPGGFLMYIVFECFKGNISTYLGRKRNFPYKSGARPROGKDYVGLSVLTKR 960
QY 961 LDSITSSQSSASSGVEEKSLSDVEEBSSELYKDFLTHLICYSPQVAGMEFLASR 1020
DB 961 LDSITSSQSSASSGVEEKSLSDVEEBSSELYKDFLTHLICYSPQVAGMEFLASR 1020
QY 1021 KCIHRDLAARNILISEKNVVKICDPGLARDIYKDPDYRKGDARPLKMMABETIFDRY 1080
DB 1021 KCIHRDLAARNILISEKNVVKICDPGLARDIYKDPDYRKGDARPLKMMABETIFDRY 1080
QY 1081 TIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRAPADYTPPMYQTMDC 1140
DB 1081 TIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRAPADYTPPMYQTMDC 1140
QY 1141 WHEDNORPSFSELYEHGNLQANAODQKQYIVLPMSETLSMEDSGSLPTSPVSCM 1200
DB 1141 WHEDNORPSFSELYEHGNLQANAODQKQYIVLPMSETLSMEDSGSLPTSPVSCM 1200
QY 1201 EEEVCDPKFHYDNTAGISHYLQNSKRKRPVSVKTFEDIPLAEEPEVKYIPDSQOTDSGM 1260
DB 1201 EEEVCDPKFHYDNTAGISHYLQNSKRKRPVSVKTFEDIPLAEEPEVKYIPDSQOTDSGM 1260
QY 1261 VLAEEELTLBEDRNKLSPSFGGMPKSKRESVYASGNSQTSYGSGHSDDTTIVYSSD 1320
DB 1261 VLAEEELTLBEDRNKLSPSFGGMPKSKRESVYASGNSQTSYGSGHSDDTTIVYSSD 1320
QY 1321 EAGLHKMDAIVHADSGTTLR 1341
DB 1321 EAGLHKMDAIVHADSGTTLR 1341

```

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RESULT 9
US-08-601-891-6
; Sequence 6, Application US/06601891
; Patent No. 5747651
; GENERAL INFORMATION:
; APPLICANT: Lemischka, Inor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Imclone Systems Incorporated
; STREET: 180 Varlick Street
; CITY: New York

```

STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/601,891
FILING DATE: 15-FEB-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-601-891-6

Query Match 99.3%; Score 6994; DB 1; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 MESKALLAVAMFCVETPAASVGLTDPFLHPKSTOCDILITLANTLLOITTCGQRDL 60
DB 1 MESKGLLAVAMFCVETPAASVGLTDPFLHPKSTOCDILITLANTLLOITTCGQRDL 60
QY 61 WLMPNAGDSSEERVLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSYRDVIASTVYV 120
DB 61 WLMPNAGDSSEERVLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSYRDVIASTVYV 120
QY 121 RDYSPFIASVSDHGIVYITENKKTIVIPCRGISNLNLSLCARYPEKRPVDPGNIS 180
DB 121 RDYSPFIASVSDHGIVYITENKKTIVIPCRGISNLNLSLCARYPEKRPVDPGNIS 180
QY 121 RDYSPFIASVSDHGIVYITENKKTIVIPCRGISNLNLSLCARYPEKRPVDPGNIS 180
DB 121 RDYSPFIASVSDHGIVYITENKKTIVIPCRGISNLNLSLCARYPEKRPVDPGNIS 180
QY 181 WDSRIGFTLPSYMTSYAGMVFCEAKINDETYSIMYIVVVGRIYVILSPPHIEILSA 240
DB 181 WDSRIGFTLPSYMTSYAGMVFCEAKINDETYSIMYIVVVGRIYVILSPPHIEILSA 240

QY 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKIIVNBDVXFPFGTVAKMFLSTLTIESVT 300
DB 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKIIVNBDVXFPFGTVAKMFLSTLTIESVT 300
QY 301 KSDGEYTCVASSGRMIRKNETFVRVHTKPPFIAGSGKMSIVETVGSQVRIPVKYLSYP 360
DB 301 KSDGEYTCVASSGRMIRKNETFVRVHTKPPFIAGSGKMSIVETVGSQVRIPVKYLSYP 360
QY 361 APDIKWRNGRPIESNTMTVVGDELTIMEVTERPAGNYTVILNPISEKOSHVSILVN 420
DB 361 APDIKWRNGRPIESNTMTVVGDELTIMEVTERPAGNYTVILNPISEKOSHVSILVN 420
QY 421 VPPQIGEKALISPMDSYQYGMOTLTCTVYANPPLHHIOWYQJLEACSYRPGQTSPYAC 480
DB 421 VPPQIGEKALISPMDSYQYGMOTLTCTVYANPPLHHIOWYQJLEACSYRPGQTSPYAC 480
QY 481 KEMRVEDFOGKNI EYTKQYALIEGKNTVSTLVIQAANVSALYKCEALINKAGRGERV 540
DB 481 KEMRVEDFOGKNI EYTKQYALIEGKNTVSTLVIQAANVSALYKCEALINKAGRGERV 540
QY 541 ISFHVIGPRTVQPAOPTBOESVSLCTADRYTFENLTMVYKLSQATSVHMEBSLTPV 600
DB 541 ISFHVIGPRTVQPAOPTBOESVSLCTADRYTFENLTMVYKLSQATSVHMEBSLTPV 600
QY 601 CKNDALMKLNGTWFNSSTNDILIVAFONASLODQGDYVCSAODKTKRKHCLVKQLIIL 660
DB 601 CKNDALMKLNGTWFNSSTNDILIVAFONASLODQGDYVCSAODKTKRKHCLVKQLIIL 660
QY 661 ERNAPMITGNLENOTTTIGETIEVTCPASGNPPIHTWPKDNETVLVDSGLVBDGNRL 720
DB 661 ERNAPMITGNLENOTTTIGETIEVTCPASGNPPIHTWPKDNETVLVDSGLVBDGNRL 720
QY 721 TIRVRKEDGSLYCOACNVLCARAEPLFIISAQKTNLEVIILVGTAVIAPFMILL 780
DB 721 TIRVRKEDGSLYCOACNVLCARAEPLFIISAQKTNLEVIILVGTAVIAPFMILL 780
QY 781 VIVLRVYKRNAGEBLKTGYLSIVMDPDELPLDERCERLPYDASKMEPRDRLLKGLPLGR 840
DB 781 VIVLRVYKRNAGEBLKTGYLSIVMDPDELPLDERCERLPYDASKMEPRDRLLKGLPLGR 840
QY 841 GAFQCVTEADAFGIDKTATCTKTVAVKMLKGAHTSEHRAIMSEKILIHIGHNLNVNLL 900
DB 841 GAFQCVTEADAFGIDKTATCTKTVAVKMLKGAHTSEHRAIMSEKILIHIGHNLNVNLL 900
QY 901 GACTKPGPLMVIVYEFCKFGLSTYLRGKNEFPVYKSKARFQGDYVGLSVDLKRR 960
DB 901 GACTKPGPLMVIVYEFCKFGLSTYLRGKNEFPVYKSKARFQGDYVGLSVDLKRR 960
QY 961 LDSITSSQSSASGTFVEKSLSDVEEESASEBELYKDFLTLEHLICYSFOYAKGMEFLASR 1020
DB 961 LDSITSSQSSASGTFVEKSLSDVEEESASEBELYKDFLTLEHLICYSFOYAKGMEFLASR 1020
QY 1021 KCHRDIAARNIILISEKNVYKICDFGLARDIYKODPYVRKGDARLPLKMAPEITFDRVY 1080
DB 1021 KCHRDIAARNIILISEKNVYKICDFGLARDIYKODPYVRKGDARLPLKMAPEITFDRVY 1080
QY 1081 TIQSDVMSFGVILMEIFSLGASPYGVKIDEEFRRRLKSGTRMAAPDYTTIEMQTMDC 1140
DB 1081 TIQSDVMSFGVILMEIFSLGASPYGVKIDEEFRRRLKSGTRMAAPDYTTIEMQTMDC 1140
QY 1141 WHEDPNRPSFSELVEHIGNLQANAOQDGDYIVLPMSETLSMEEDSGLSLPTSPVSCM 1200
DB 1141 WHEDPNRPSFSELVEHIGNLQANAOQDGDYIVLPMSETLSMEEDSGLSLPTSPVSCM 1200
QY 1201 EEEVCDPKRHYDNTAGISHLQNSKRKSRPVSKYKTEDIPLEBPYKVIYVDDSDQTSGM 1260
DB 1201 EEEVCDPKRHYDNTAGISHLQNSKRKSRPVSKYKTEDIPLEBPYKVIYVDDSDQTSGM 1260
QY 1261 VLAASELKTLEDNRKILSPFGMMPSKSRBSVASSEGSNQTSGYSGYHSDDTDTTVVSSD 1320
DB 1261 VLAASELKTLEDNRKILSPFGMMPSKSRBSVASSEGSNQTSGYSGYHSDDTDTTVVSSD 1320

QY 1321 EAGLLKMDAAVHADSGTTR 1341
 DB 1321 EAGLLKMDAAVHADSGTTLQ 1341

RESULT 10

US-09-021-324-6
 / Sequence 6, Application US/09021324
 / Patent No. 5912133
 / GENERAL INFORMATION:

APPLICANT: Lemischka, Thor R.
 TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
 TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
 NUMBER OF SEQUENCES: 10
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Imclone Systems Incorporated
 STREET: 180 Varlick Street
 CITY: New York
 STATE: New York
 COUNTRY: U.S.A.

ZIP: 10014

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/021,324

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/977,451

FILING DATE: 1992-11-19

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/906,397

FILING DATE: 26-JUN-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US PCT/US92/05401

FILING DATE: 26-JUN-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: TW 81102961

FILING DATE: 15-APR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US PCT/US92/02750

FILING DATE: 02-APR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/813,593

FILING DATE: 24-DEC-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/793,065

FILING DATE: 15-NOV-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/728,913

FILING DATE: 28-JUN-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/679,666

FILING DATE: 02-APR-1991

ATTORNEY/AGENT INFORMATION:

NAME: Peit, Irving N.

REGISTRATION NUMBER: 28,601

REFERENCE/DOCKET NUMBER: LEM-3-7P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-645-1405

TELEFAX: 212-645-2054

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 1367 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-021-324-6

Query Match 99.3%; Score 6994; DB 1; Length 1367;

Best Local Similarity 99.6%; Pred. No. 0;
 Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY	1	MESKALLAVLWFCVETRAASVGLTGFHPPLKSTOKOILITLANTLQITRGGRDLD	60
DB	1	MESKGLAVALWFCVETRAASVGLPGDFLHPPLKSTOKOILITLANTLQITRGGRDLD	60
QY	61	WLPNARDSEERVLVTECGGGDSIFCKTLTTPRVVGNQGVAKGYRVDIASTVYVY	120
DB	61	WLPNARDSEERVLVTECGGGDSIFCKTLTTPRVVGNQGVAKGYRVDIASTVYVY	120
QY	121	RDYRSPFIASVSDOHGIVITENKNTVIPCGRSISNLNVSICARYPERKFPDGNRS	180
DB	121	RDYRSPFIASVSDOHGIVITENKNTVIPCGRSISNLNVSICARYPERKFPDGNRS	180
QY	181	WDSEIFTLPSYMWISYAGVFCBAKNDETYOSIMYIVVVGRIYDVLISPEHELSA	240
DB	181	WDSEIFTLPSYMWISYAGVFCBAKNDETYOSIMYIVVVGRIYDVLISPEHELSA	240
QY	241	GEKLVNCTARTELANVGLDFTWHSPPSKSHKKIVRDVPPPGTAKMFLSTLTESVT	300
DB	241	GEKLVNCTARTELANVGLDFTWHSPPSKSHKKIVRDVPPPGTAKMFLSTLTESVT	300
QY	301	KSDQGEYTCVASSGRMICKNRTPFVRVHTKPTAFSGSMKSLVEATVGSQVRIPVKLSYP	360
DB	301	KSDQGEYTCVASSGRMICKNRTPFVRVHTKPTAFSGSMKSLVEATVGSQVRIPVKLSYP	360
QY	361	APDIKMYRNGRPIESNTYMI VDEDLTMEVTERDAGNTVYIITNPISMEKSHMVS LVN	420
DB	361	APDIKMYRNGRPIESNTYMI VDEDLTMEVTERDAGNTVYIITNPISMEKSHMVS LVN	420
QY	421	VPPQIGERKALISPMDSYOGTMOTLTCTYAAPPLHHTOMVQOLEACGYRGCQSPYAC	480
DB	421	VPPQIGERKALISPMDSYOGTMOTLTCTYAAPPLHHTOMVQOLEACGYRGCQSPYAC	480
QY	481	KEMRVEDPQGGNKILETKNOYALIEGKNKTSTLVIQANVSALYKCEAINKAGGEHY	540
DB	481	KEMRVEDPQGGNKILETKNOYALIEGKNKTSTLVIQANVSALYKCEAINKAGGEHY	540
QY	541	ISFHVIRGPETVOPPAOPTBOESVSLCTADRNTPENITWYKLSQATSVHMGESLTPV	600
DB	541	ISFHVIRGPETVOPPAOPTBOESVSLCTADRNTPENITWYKLSQATSVHMGESLTPV	600
QY	601	CNULALMKLNGTMSNSTNDLIIAFOVASLODGDYVCSADOKTKKRHCLVQLIIL	660
DB	601	CNULALMKLNGTMSNSTNDLIIAFOVASLODGDYVCSADOKTKKRHCLVQLIIL	660
QY	661	ERMAMPITGNLENQTTTIGETIEVTCPASGNTPPHITWPKDNETLVEDSGIVLRDGNRL	720
DB	661	ERMAMPITGNLENQTTTIGETIEVTCPASGNTPPHITWPKDNETLVEDSGIVLRDGNRL	720
QY	721	TIRVRKEDDGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWLL	780
DB	721	TIRVRKEDDGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWLL	780
QY	781	VIVATVVRANEGELKTGYLSIYMPDDELPLDERCERLPYDASKNEFPDRKLKGPGR	840
DB	781	VIVATVVRANEGELKTGYLSIYMPDDELPLDERCERLPYDASKNEFPDRKLKGPGR	840
QY	841	GAFGQVIEADAFGIDKTATCKTAVAKMLKEGATSEHSHALMSELKILIHGHILNVNLL	900
DB	841	GAFGQVIEADAFGIDKTATCKTAVAKMLKEGATSEHSHALMSELKILIHGHILNVNLL	900
QY	901	GACTKPGGPLWVYEFCKFGNLSYLRKRNEFVYKSGKARFRQGXQYVGLSYDLKRR	960
DB	901	GACTKPGGPLWVYEFCKFGNLSYLRKRNEFVYKSGKARFRQGXQYVGLSYDLKRR	960
QY	961	LDSTSSQSSASGVEEKSLSVDEEERASELYDELTLLEHLITCYSOVAKGMEFLASR	1020
DB	961	LDSTSSQSSASGVEEKSLSVDEEERASELYDELTLLEHLITCYSOVAKGMEFLASR	1020
QY	1021	KCIHRDLAARNILSEKNVVKICDFGLARDLYKDPDYVRKGDARLPLKMAPEITFDRYV	1080
DB	1021	KCIHRDLAARNILSEKNVVKICDFGLARDLYKDPDYVRKGDARLPLKMAPEITFDRYV	1080

Db 1021 KCIHDLAARNILLSKXVVKICDEGLARDIYKDPDYVRKGDAARLPLKMAPEITFDREV 1080
QY 1081 TIQSDVMSFVGLWMEIFSLGASPYGVKIDEEFCRLKEGTMRAPDYTPEMYOTMDC 1140
Db 1081 TIQSDVMSFVGLWMEIFSLGASPYGVKIDEEFCRLKEGTMRAPDYTPEMYOTMDC 1140
QY 1141 WHEDPNQRPSSELSVEHLGNLLQANAAQDGKDYIVLPMSETLSMEDSGLSPTSPVSCM 1200
Db 1141 WHEDPNQRPSSELSVEHLGNLLQANAAQDGKDYIVLPMSETLSMEDSGLSPTSPVSCM 1200
QY 1201 EEEECVDPKRFHYDNAGISHTYONSKRSRPVSVTFEPEDIPLEBEVAVIPDDSGTDSGM 1260
Db 1201 EEEECVDPKRFHYDNAGISHTYONSKRSRPVSVTFEPEDIPLEBEVAVIPDDSGTDSGM 1260
QY 1261 VLASEELKTLIEDRNKLSPSGGMPKSKRESVASEGNSQTSYGSGYSDDTDTTVYSSD 1320
Db 1261 VLASEELKTLIEDRNKLSPSGGMPKSKRESVASEGNSQTSYGSGYSDDTDTTVYSSD 1320
QY 1321 EAGLLKMWDAVHADSGTTLR 1341
Db 1321 EAGLLKMWDAVHADSGTTLQ 1341

RESULT 11
US-09-872-136B-6
Sequence 6, Application US/09872136B
Patent No. 6677434
GENERAL INFORMATION:
APPLICANT: Lemischka, Thor R.
TITLE OF INVENTION: SOLUBLE HUMAN FLK-2 PROTEIN
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/872,136B
FILING DATE: 01-Jun-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/208,786
FILING DATE: 10-DEC-1998
APPLICATION NUMBER: US 09/021,324
FILING DATE: 10-FEB-1998
APPLICATION NUMBER: US 08/601,891
FILING DATE: 15-FEB-1996
APPLICATION NUMBER: US 08/252,498
FILING DATE: 31-OCT-1994
APPLICATION NUMBER: US 08/055,269
FILING DATE: 30-APR-1993
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-NOV-1992
APPLICATION NUMBER: US 07/975,049
FILING DATE: 12-NOV-1992
APPLICATION NUMBER: 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wlecekowski, Elizabeth M.

REGISTRATION NUMBER: 42,226
REFERENCE/DOCKET NUMBER: 11245/46115
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-425-7200
TELEFAX: 212-425-5288
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-872-136B-6
Query Match 99.3%; Score 6994; DB 2; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
QY 1 MESKALLAVALMFCVETRAASVGLTGFLLHPKSLSTOKDILLTILANTLLQITRCGRDLD 60
Db 1 MESKGLLAVALLMFCVETRAASVGLJPGDFLHPKSLSTOKDILLTILANTLLQITRCGRDLD 60
QY 61 WLPNNAQRDSEERVLVYTCGGGDSIFCKTLLTPRVNGDRTGAYKSYRDNULIASVYVYV 120
Db 61 WLPNNAQRDSEERVLVYTCGGGDSIFCKTLLTPRVNGDRTGAYKSYRDNULIASVYVYV 120
QY 121 RDYSPFIAVSVDHGIYVITENKNTVILPCRGISLNLAVSLCARYPEKSFVPDGNRIS 180
Db 121 RDYSPFIAVSVDHGIYVITENKNTVILPCRGISLNLAVSLCARYPEKSFVPDGNRIS 180
QY 181 WDSIEGFTLPISYMSVAGWFCFAKINDEYQSIWYIVVVGRIYDVLISPHIEILSA 240
Db 181 WDSIEGFTLPISYMSVAGWFCFAKINDEYQSIWYIVVVGRIYDVLISPHIEILSA 240
QY 241 GEKLVNCTATETLVNGDFTWHSPPSKSHHKLVNDRVKKPFGVAAMPFSLTITIEVT 300
Db 241 GEKLVNCTATETLVNGDFTWHSPPSKSHHKLVNDRVKKPFGVAAMPFSLTITIEVT 300
QY 301 KSDQGEYTCVASSGRMIRKRTFVRVHTKPPFIAFGSGKSLVEATVSGQVRIPVYLSYP 360
Db 301 KSDQGEYTCVASSGRMIRKRTFVRVHTKPPFIAFGSGKSLVEATVSGQVRIPVYLSYP 360
QY 361 APDIKWRNGRPISNTYMIAGDELTIMEVTERDAGNTVILTPISMEKOSHWSLVVN 420
Db 361 APDIKWRNGRPISNTYMIAGDELTIMEVTERDAGNTVILTPISMEKOSHWSLVVN 420
QY 421 VPPQIGKALISPMDSYOYGMOTLTCTVYANPPLHHIOWWOLBEACSYRPGQTSFYAC 480
Db 421 VPPQIGKALISPMDSYOYGMOTLTCTVYANPPLHHIOWWOLBEACSYRPGQTSFYAC 480
QY 481 KEMRHVEDFOGANKIEYTKNOYALIEGKNKTSTLVIOANAVSALYKCEAIINKAGRGERV 540
Db 481 KEMRHVEDFOGANKIEYTKNOYALIEGKNKTSTLVIOANAVSALYKCEAIINKAGRGERV 540
QY 541 ISFHVIRGPETIVPAAPTEQESVSLCTADRTFENLTMYKLGSOATSYMGESLTPV 600
Db 541 ISFHVIRGPETIVPAAPTEQESVSLCTADRTFENLTMYKLGSOATSYMGESLTPV 600
QY 601 CKNDLALMKNGTMFNSSTNDILLVAFONASLQOQGDVCSAODKTKKRCCLVYQLILL 660
Db 601 CKNDLALMKNGTMFNSSTNDILLVAFONASLQOQGDVCSAODKTKKRCCLVYQLILL 660
QY 661 ERMAPMITGNLENQTTIGETIEYTCASGNPTPHITFKKNETLVEDSGILVRDGNL 720
Db 661 ERMAPMITGNLENQTTIGETIEYTCASGNPTPHITFKKNETLVEDSGILVRDGNL 720
QY 721 TIRVRKEDGGLYTCQACNVLGCAEAETLFIIEGAQEXTNLEVIILVGTAVIAEFWILL 780
Db 721 TIRVRKEDGGLYTCQACNVLGCAEAETLFIIEGAQEXTNLEVIILVGTAVIAEFWILL 780
QY 781 VIVLRKYKRANEGSLKGYLSIWNDDPDELPLDERCERLPYASGKWEPRDRLLKQKPLGR 840
Db 781 VIVLRKYKRANEGSLKGYLSIWNDDPDELPLDERCERLPYASGKWEPRDRLLKQKPLGR 840

QY 841 GAFGVIEADAFGIDKTATCTVAVMKLEGAHSEHRLMSLKLIIHGHILNVNLL 900
DB 841 GAFGVIEADAFGIDKTATCTVAVMKLEGAHSEHRLMSLKLIIHGHILNVNLL 900
QY 901 GACTRGCPPLMYIVFECFGNLSYIRGRNREFVPYKSGARPROGKDYVGLSVLKKR 960
DB 901 GACTRGCPPLMYIVFECFGNLSYIRGRNREFVPYKSGARPROGKDYVGLSVLKKR 960
QY 961 LDISYSSGSSASSGFVEEKSLSDVVEEESAEEELYKDFLLEHLICYSFGVAKGMETLAKR 1020
DB 961 LDISYSSGSSASSGFVEEKSLSDVVEEESAEEELYKDFLLEHLICYSFGVAKGMETLAKR 1020
QY 1021 KCIHRDLAARNILLESKNVVKICDFGLANDIYKDPDYVAKGDARLPKMMAPETIFDRY 1080
DB 1021 KCIHRDLAARNILLESKNVVKICDFGLANDIYKDPDYVAKGDARLPKMMAPETIFDRY 1080
QY 1081 TIQSVWVSFGVLLMEIFSLGASPYPGVKIDEEFCRRLKEGTRMRADYTTPEMYOTMLDC 1140
DB 1081 TIQSVWVSFGVLLMEIFSLGASPYPGVKIDEEFCRRLKEGTRMRADYTTPEMYOTMLDC 1140
QY 1141 WHEDNORPSFSELVEHGNLLOANAQODCKDIYVLPMSSETLSMEEDSLPTSPVSCM 1200
DB 1141 WHEDNORPSFSELVEHGNLLOANAQODCKDIYVLPMSSETLSMEEDSLPTSPVSCM 1200
QY 1201 EEEVCDCRFHYDNTAGISHYLONSKRKSRPVSVKTFEDIPLPEBPVKIYPPDSQTDSCM 1260
DB 1201 EEEVCDCRFHYDNTAGISHYLONSKRKSRPVSVKTFEDIPLPEBPVKIYPPDSQTDSCM 1260
QY 1261 VIASELKLIEDRNKLSPSFGGMPSKSRRESVASGSGNOSGYSQSGYSDDTDTTVSSD 1320
DB 1261 VIASELKLIEDRNKLSPSFGGMPSKSRRESVASGSGNOSGYSQSGYSDDTDTTVSSD 1320
QY 1321 EAGLLKMDAANVHADSCTTLR 1341
DB 1321 EAGLLKMDAANVHADSCTTLR 1341

RESULT 12

US-09-919-408A-6
Sequence 6, Application US/09919408A
Patent No. 6960446

GENERAL INFORMATION:

APPLICANT: Lemischka, Ihor R.

TITLE OF INVENTION: METHOD FOR ISOLATING CELLS EXPRESSING

FLK-2 RECEPTORS AND ISOLATED POPULATIONS
OF CELLS THAT EXPRESS FLK-2 RECEPTORS

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESS: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: New York

COUNTRY: U.S.A.

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/919,408A

FILING DATE: 31-Jul-2001

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/208,786

FILING DATE: 10-DEC-1998

APPLICATION NUMBER: US 09/021,324

FILING DATE: 10-FEB-1998

APPLICATION NUMBER: US 08/601,891

FILING DATE: 15-FEB-1996

APPLICATION NUMBER: US 08/252,498

FILING DATE: 31-OCT-1994

APPLICATION NUMBER: US 08/055,269

FILING DATE: 30-APR-1993
APPLICATION NUMBER: US 07/977,451
FILING DATE: 19-NOV-1992
APPLICATION NUMBER: US 07/975,049
FILING DATE: 12-NOV-1992
APPLICATION NUMBER: 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wieckowski, Elizabeth M.
REGISTRATION NUMBER: 42,226
REFERENCE/DOCKET NUMBER: 11245/46115
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-425-7200
TELEFAX: 212-425-5288
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-919-408A-6

Query Match 99.3%; Score 6994; DB 2; Length 1367;

Beet Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSSTQKDIITLIANTTLQITCRGQRDLD 60
DB 1 MESKGLAVALMFCVETRAASVGLTGDFLHPKLSSTQKDIITLIANTTLQITCRGQRDLD 60
QY 61 WLPNPAQDSERVLVTECGGDSIFCKTLTIPRVVNDGTAAYKCSYRDVDAIASTVYVV 120
DB 61 WLPNPAQDSERVLVTECGGDSIFCKTLTIPRVVNDGTAAYKCSYRDVDAIASTVYVV 120
QY 61 WLPNPAQDSERVLVTECGGDSIFCKTLTIPRVVNDGTAAYKCSYRDVDAIASTVYVV 120
DB 61 WLPNPAQDSERVLVTECGGDSIFCKTLTIPRVVNDGTAAYKCSYRDVDAIASTVYVV 120
QY 121 RDVSPFIASVDDGIVYITENKNTVVICRGSISLNVSLCARPEKFPVDSGNIS 180
DB 121 RDVSPFIASVDDGIVYITENKNTVVICRGSISLNVSLCARPEKFPVDSGNIS 180
QY 121 RDVSPFIASVDDGIVYITENKNTVVICRGSISLNVSLCARPEKFPVDSGNIS 180
DB 121 RDVSPFIASVDDGIVYITENKNTVVICRGSISLNVSLCARPEKFPVDSGNIS 180
QY 181 WDSIEGFTLPSYMSIYAGMVFCEAKINDEYQSIWYIVVVGRIYDVLSPPHIEISA 240
DB 181 WDSIEGFTLPSYMSIYAGMVFCEAKINDEYQSIWYIVVVGRIYDVLSPPHIEISA 240
QY 181 WDSIEGFTLPSYMSIYAGMVFCEAKINDEYQSIWYIVVVGRIYDVLSPPHIEISA 240
DB 181 WDSIEGFTLPSYMSIYAGMVFCEAKINDEYQSIWYIVVVGRIYDVLSPPHIEISA 240
QY 241 GEKLVNCTARTLNVGLDFTWSPSPSKSHHKIIVNRDVKPFGTVAMFLSTLTIESVT 300
DB 241 GEKLVNCTARTLNVGLDFTWSPSPSKSHHKIIVNRDVKPFGTVAMFLSTLTIESVT 300
QY 241 GEKLVNCTARTLNVGLDFTWSPSPSKSHHKIIVNRDVKPFGTVAMFLSTLTIESVT 300
DB 241 GEKLVNCTARTLNVGLDFTWSPSPSKSHHKIIVNRDVKPFGTVAMFLSTLTIESVT 300
QY 301 KSDGEYTCVASSGRMTKRNTFVRVHTKPIIAGSGKSLVEATVSGQVRIIPKYLSTP 360
DB 301 KSDGEYTCVASSGRMTKRNTFVRVHTKPIIAGSGKSLVEATVSGQVRIIPKYLSTP 360
QY 301 KSDGEYTCVASSGRMTKRNTFVRVHTKPIIAGSGKSLVEATVSGQVRIIPKYLSTP 360
DB 301 KSDGEYTCVASSGRMTKRNTFVRVHTKPIIAGSGKSLVEATVSGQVRIIPKYLSTP 360
QY 361 APDIKMYRNGRPIESNTYMIIGDELTIMEVERDAGNTVLTLPISMEKSHWVSLVNV 420
DB 361 APDIKMYRNGRPIESNTYMIIGDELTIMEVERDAGNTVLTLPISMEKSHWVSLVNV 420
QY 421 VPPOIGERKALISPMDSYQYGTMTCTTVANPPLHHIOWTWOLEACSYRPGTSPYAC 480
DB 421 VPPOIGERKALISPMDSYQYGTMTCTTVANPPLHHIOWTWOLEACSYRPGTSPYAC 480
QY 481 KEMRHVEDFOGNGKIEYTKNOYALIEGKNTVSTLVIOANVSLVYCEALNKRGREVR 540
DB 481 KEMRHVEDFOGNGKIEYTKNOYALIEGKNTVSTLVIOANVSLVYCEALNKRGREVR 540
QY 541 ISFVIRGPEITVOPAAQPTQESVSLCTADRNTFENLTWYKLGSAQTSVHMGESLTPV 600
DB 541 ISFVIRGPEITVOPAAQPTQESVSLCTADRNTFENLTWYKLGSAQTSVHMGESLTPV 600

Db 541 ISFHVIRGPEITVQPAAPTEQESVSLCTADRNTEFNLTWYKLGSOATSVHMGESLTPV 600
Qy 601 CKNDALMLKNGTMSNSTNDILIVAFONASLDQDGYVCSAODKTKKRHCIVKQILIL 660
Db 601 CKNDALMLKNGTMSNSTNDILIVAFONASLDQDGYVCSAODKTKKRHCIVKQILIL 660
Qy 661 ERMAPMTITGNLENQTTTIGETIEVTCPASGNPTPHITWFKDNETLVEDSGIVLRDGNRL 720
Db 661 ERMAPMTITGNLENQTTTIGETIEVTCPASGNPTPHITWFKDNETLVEDSGIVLRDGNRL 720
Qy 721 TIRVRKXEDGGLYTCOACNVLCGARAETLFTIEGQOEKTNLEVIIVGTAVIANFEMLL 780
Db 721 TIRVRKXEDGGLYTCOACNVLCGARAETLFTIEGQOEKTNLEVIIVGTAVIANFEMLL 780
Qy 781 VILVTVRANEGELKTGYLSIVMDPDELPLDERCERLPYASKMEFRDRLKLGKPLGR 840
Db 781 VILVTVRANEGELKTGYLSIVMDPDELPLDERCERLPYASKMEFRDRLKLGKPLGR 840
Qy 841 GAFQGVLEADAFGIDKNTCTCTVAVKMLKEGATSEHRLMSELKILIHGHILNVNLL 900
Db 841 GAFQGVLEADAFGIDKNTCTCTVAVKMLKEGATSEHRLMSELKILIHGHILNVNLL 900
Qy 901 GACTRPGGLVAVIYEFCKEGLSTYLRGRNEFVYKSGARFROGKDYGELSVDLKR 960
Db 901 GACTRPGGLVAVIYEFCKEGLSTYLRGRNEFVYKSGARFROGKDYGELSVDLKR 960
Qy 961 LDSITSSQSSASGQVEEKSLSQVEEBSSELYKDFLTLEHLICYSFOVAKGMEFLASR 1020
Db 961 LDSITSSQSSASGQVEEKSLSQVEEBSSELYKDFLTLEHLICYSFOVAKGMEFLASR 1020
Qy 1021 KCIRHDLAARNIILSEKUNVKICDFGLARDYKDPDYRKDARLPLKMAPEITFDPRY 1080
Db 1021 KCIRHDLAARNIILSEKUNVKICDFGLARDYKDPDYRKDARLPLKMAPEITFDPRY 1080
Qy 1081 TIQSDVMSFGVLWEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYOTMLDC 1140
Db 1081 TIQSDVMSFGVLWEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYOTMLDC 1140
Qy 1141 WHBDPNORPSFSELVEHNLGNLQANNAQDGDYIVLPWSETLSMBEDSGLSLPTSPVSCM 1200
Db 1141 WHBDPNORPSFSELVEHNLGNLQANNAQDGDYIVLPWSETLSMBEDSGLSLPTSPVSCM 1200
Qy 1201 EEEVCDPKFYDNTAGISHTLONSKRKSRPVSYKTFEDILPEEBEVAVIPDDQOTSGM 1260
Db 1201 EEEVCDPKFYDNTAGISHTLONSKRKSRPVSYKTFEDILPEEBEVAVIPDDQOTSGM 1260
Qy 1261 VLASEELKTLEDRNKLSFGGMPMSKRESVASGSGNOTSGOYSGYHSDDTITTVSSD 1320
Db 1261 VLASEELKTLEDRNKLSFGGMPMSKRESVASGSGNOTSGOYSGYHSDDTITTVSSD 1320
Qy 1321 EAGLLKMWDAVHADSGTTLR 1341
Db 1321 EAGLLKMWDAVHADSGTTLQ 1341

RESULT 13
PCT-US92-02750-8
Sequence 8, Application PC/TUS9202750
GENERAL INFORMATION:
APPLICANT: LEMISCHKA, IHOR R.
TITLE OF INVENTION: Totipotent Hematopoietic Stem Cell
NUMBER OF SEQUENCES: 8
RECEIPTS AND THEIR LIGANDS
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCORPORATED
STREET: 180 VARICK STREET
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: US
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/02750
FILING DATE: 19920402
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: FEIT, IRVING N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-PPPT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-02750-8

Query Match 99.3%; Score 6994; DB 4; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSIQKILITLANTTLQITCRGQRDL 60
Db 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSIQKILITLANTTLQITCRGQRDL 60
Qy 61 WLMWNAQRDEEBEVLVTECGGDSIFCKTLTTPRVNNDGAYKSRVDVIASTVYVV 120
Db 61 WLMWNAQRDEEBEVLVTECGGDSIFCKTLTTPRVNNDGAYKSRVDVIASTVYVV 120
Qy 121 RDYSPFIASVSDOHGIVITENKNTVIPCGRSISNLNLSLCARYPERFVDPGRIS 180
Db 121 RDYSPFIASVSDOHGIVITENKNTVIPCGRSISNLNLSLCARYPERFVDPGRIS 180
Qy 181 WDSIEGFTLPSYMSVAGWVCEAKINDEFYQSIYVVVGVRIYVILSPHEIELSA 240
Db 181 WDSIEGFTLPSYMSVAGWVCEAKINDEFYQSIYVVVGVRIYVILSPHEIELSA 240
Qy 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIVNDDVPRPCTVAKMFLSTLTISVT 300
Db 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIVNDDVPRPCTVAKMFLSTLTISVT 300
Qy 301 KSDQGEYTCVASSGRMKNRTFVRVATKPFIAFGSGMSLVKATVGSQVRIPVKYLSTP 360
Db 301 KSDQGEYTCVASSGRMKNRTFVRVATKPFIAFGSGMSLVKATVGSQVRIPVKYLSTP 360
Qy 361 APDIKMYRNGRPIESNTYMTVIGDELTIMEVTERDAGNYTIVLTPISMEKQSHVSLVN 420
Db 361 APDIKMYRNGRPIESNTYMTVIGDELTIMEVTERDAGNYTIVLTPISMEKQSHVSLVN 420
Qy 421 VPPQIGKALISPMDSQVYGTMTCTVYANPLHHIQWYQLEKCSRPGTSPAC 480
Db 421 VPPQIGKALISPMDSQVYGTMTCTVYANPLHHIQWYQLEKCSRPGTSPAC 480
Qy 481 KEMRHVEDFOGKNIETVTKQVALIBGNKTVSTLVIQANVSALYKCEALINKAGSERV 540
Db 481 KEMRHVEDFOGKNIETVTKQVALIBGNKTVSTLVIQANVSALYKCEALINKAGSERV 540
Qy 541 ISFHVIRGPEITVQPAAPTEQESVSLCTADRNTEFNLTWYKLGSOATSVHMGESLTPV 600
Db 541 ISFHVIRGPEITVQPAAPTEQESVSLCTADRNTEFNLTWYKLGSOATSVHMGESLTPV 600
Qy 601 CKNDALMLKNGTMSNSTNDILIVAFONASLDQDGYVCSAODKTKKRHCIVKQILIL 660
Db 601 CKNDALMLKNGTMSNSTNDILIVAFONASLDQDGYVCSAODKTKKRHCIVKQILIL 660
Qy 661 ERMAPMTITGNLENQTTTIGETIEVTCPASGNPTPHITWFKDNETLVEDSGIVLRDGNRL 720
Db 661 ERMAPMTITGNLENQTTTIGETIEVTCPASGNPTPHITWFKDNETLVEDSGIVLRDGNRL 720

QY 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIANEFWLL 780
DB 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIANEFWLL 780
QY 781 VIVRTVVRANEGELKTGYLSIYVMPDELPLDERCERLPYDASKMEFPDRDLKLGKPLGR 840
DB 781 VIVRTVVRANEGELKTGYLSIYVMPDELPLDERCERLPYDASKMEFPDRDLKLGKPLGR 840
QY 841 GAFGOVIEADAFGIDKATCTVAVVKMLKEGATSHSRALMSSELKLIHIGHLNVNLL 900
DB 841 GAFGOVIEADAFGIDKATCTVAVVKMLKEGATSHSRALMSSELKLIHIGHLNVNLL 900
QY 901 GACTRPGGLWYIVFECCKGNLSTYLGRKNEFPVYKSGAARFGQKDYVVELSYDLKRR 960
DB 901 GACTRPGGLWYIVFECCKGNLSTYLGRKNEFPVYKSGAARFGQKDYVVELSYDLKRR 960
QY 961 LDSITSSQSSASSGFVEEKSLSDBVEEBSSELYKDFLTLEHLICYSFOVAKGMEFLASR 1020
DB 961 LDSITSSQSSASSGFVEEKSLSDBVEEBSSELYKDFLTLEHLICYSFOVAKGMEFLASR 1020
QY 1021 KCIHRDLAARNILSEKNNVVKICDFGLARDIYKDPDYVYKGDARLPKMMAPETIFDRY 1080
DB 1021 KCIHRDLAARNILSEKNNVVKICDFGLARDIYKDPDYVYKGDARLPKMMAPETIFDRY 1080
QY 1081 TIQSDVMSFGVLLWEIFSLGASPYPGVKIDEBFCRLKEGTRMRAADYTTPEMYQTMDC 1140
DB 1081 TIQSDVMSFGVLLWEIFSLGASPYPGVKIDEBFCRLKEGTRMRAADYTTPEMYQTMDC 1140
QY 1141 WHEDNORPSSELYVEHLGNLLQANNAQODGKQIYVLPMSSETLSMEBDSGLSPSPVSCM 1200
DB 1141 WHEDNORPSSELYVEHLGNLLQANNAQODGKQIYVLPMSSETLSMEBDSGLSPSPVSCM 1200
QY 1201 EEEVCDPFEHYDNTAGTSHYLONSKRKSRPVSVTFEDIPLEBEVVKYIPDQSDQDSGM 1260
DB 1201 EEEVCDPFEHYDNTAGTSHYLONSKRKSRPVSVTFEDIPLEBEVVKYIPDQSDQDSGM 1260
QY 1261 VLASELKLTLIEDRNKLSPSFGGMPSKSRRESVASRGSNOTSGYSGYSDDTDTTVSSD 1320
DB 1261 VLASELKLTLIEDRNKLSPSFGGMPSKSRRESVASRGSNOTSGYSGYSDDTDTTVSSD 1320
QY 1321 EAGLLKMDAANVADSCTTLR 1341
DB 1321 EAGLLKMDAANVADSCTTLR 1341

RESULT 14
PCT-US92-05401-6
; Sequence 6, Application PC/TUS9205401
; GENERAL INFORMATION:
; APPLICANT: Lemischke, Ihor R.
; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
; TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: IMCLONE SYSTEMS INCORPORATED
; STREET: 180 VARICK STREET
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10014
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/05401
; FILING DATE: 19920626
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Felt, Irving N.
; REGISTRATION NUMBER: 28, 601
; REFERENCE/DOCKET NUMBER: LEM-3-PPEPPT

TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-645-1405
; TELEFAX: 212-645-2054
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1367 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US92-05401-6

Query Match 99.3%; Score 6994; DB 4; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

1 MESKALLAVALLMFCVETPAASVGLTGDPLHPPKSLTQDQDILTIANTLTQITRCQRDL 60
DB 1 MESKALLAVALLMFCVETPAASVGLTGDPLHPPKSLTQDQDILTIANTLTQITRCQRDL 60
QY 61 WLPMAQRDSEERVLVTECGGDSIFCKTLTIPIRVGNDTGAYYKSYRBDVDIASTVYVY 120
DB 61 WLPMAQRDSEERVLVTECGGDSIFCKTLTIPIRVGNDTGAYYKSYRBDVDIASTVYVY 120
QY 121 RDRSPFIASVDQHGIVYITENKNTVIVPCRSISMLNYSLCARYEKEFPDGNRIS 180
DB 121 RDRSPFIASVDQHGIVYITENKNTVIVPCRSISMLNYSLCARYEKEFPDGNRIS 180
QY 181 WDEIGFTLPSYMSIYAQMVFCEAKINDETQSIWYIVVYGYRIYDVIISPHEIELSA 240
DB 181 WDEIGFTLPSYMSIYAQMVFCEAKINDETQSIWYIVVYGYRIYDVIISPHEIELSA 240
QY 241 GEKLVNCTARTELNVGDLFTWHSPPSKSHKKIYNRPDVKPPGTVAAKPLSTLTIESVT 300
DB 241 GEKLVNCTARTELNVGDLFTWHSPPSKSHKKIYNRPDVKPPGTVAAKPLSTLTIESVT 300
QY 301 KSDQGEYTCVASSGRMIRKNTFVRVHTKPIAFSGSKSLVEATVGSQVAIPVYKLSYP 360
DB 301 KSDQGEYTCVASSGRMIRKNTFVRVHTKPIAFSGSKSLVEATVGSQVAIPVYKLSYP 360
QY 361 APDIKYNRGRPIESNTMIYVDELTIMETVERDAGNTVILNPIISMEKSHWSLVVN 420
DB 361 APDIKYNRGRPIESNTMIYVDELTIMETVERDAGNTVILNPIISMEKSHWSLVVN 420
QY 421 VPOIGEKALISPMDSYOGTMQTLCTVYANPPLHHIQWMOLEASYSYRPGQISPYAC 480
DB 421 VPOIGEKALISPMDSYOGTMQTLCTVYANPPLHHIQWMOLEASYSYRPGQISPYAC 480
QY 481 KEWRHVEDFOGKNIEVTKNOYALIEGKNKTVSTLVIOAANVSALYKCEALINKAGRGSRV 540
DB 481 KEWRHVEDFOGKNIEVTKNOYALIEGKNKTVSTLVIOAANVSALYKCEALINKAGRGSRV 540
QY 541 ISFHYIRGEPEITVQPAOPTQESVSLCTADRNTFENLWYKIGSQATSYHMGESLTPV 600
DB 541 ISFHYIRGEPEITVQPAOPTQESVSLCTADRNTFENLWYKIGSQATSYHMGESLTPV 600
QY 601 CKNDALMKLNGTWFNSNTDILIVAFONASLQDQGVVCSAODKTKKRCHLVAKQLIL 660
DB 601 CKNDALMKLNGTWFNSNTDILIVAFONASLQDQGVVCSAODKTKKRCHLVAKQLIL 660
QY 661 ERMAPMITGNLENQTTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMITGNLENQTTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
QY 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIANEFWLL 780
DB 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIANEFWLL 780
QY 781 VIVRTVVRANEGELKTGYLSIYVMPDELPLDERCERLPYDASKMEFPDRDLKLGKPLGR 840
DB 781 VIVRTVVRANEGELKTGYLSIYVMPDELPLDERCERLPYDASKMEFPDRDLKLGKPLGR 840
QY 841 GAFGOVIEADAFGIDKATCTVAVVKMLKEGATSHSRALMSSELKLIHIGHLNVNLL 900

Db 841 GAFQVIEADAFGIDKATCTKTVAVKMLKEGATSHSEHRALMSELKILIHGHLNVNLL 900
Qy 901 GACTKPGGLPMVIVPECKFKNLSTYLGRKNEFVYKSGARFRQGDYVGLSVDLKRR 960
Db 901 GACTKPGGLPMVIVPECKFKNLSTYLGRKNEFVYKSGARFRQGDYVGLSVDLKRR 960
Qy 961 LDSITSSQSSASSGVEEKSLSDVEEBEASEELYNDFLTLEHLICYSFQVAKGMEFLASR 1020
Db 961 LDSITSSQSSASSGVEEKSLSDVEEBEASEELYNDFLTLEHLICYSFQVAKGMEFLASR 1020
Qy 1021 KCIHRDLAARVILSEKVVVVICDFGLARDIYKDPDYRKGDARLPLKMAPEITFDRVY 1080
Db 1021 KCIHRDLAARVILSEKVVVVICDFGLARDIYKDPDYRKGDARLPLKMAPEITFDRVY 1080
Qy 1081 TIQSDVMSFVGLWMEIFSLGASPYPGVKIDEFCRLKEGTRMRAPDYTTPEMYQTMDC 1140
Db 1081 TIQSDVMSFVGLWMEIFSLGASPYPGVKIDEFCRLKEGTRMRAPDYTTPEMYQTMDC 1140
Qy 1141 WHEDPNORPSFSELVEHIGNLQANAAQODGKDYIVLPMSETLMEEDSGLSLPTSPVSCM 1200
Db 1141 WHEDPNORPSFSELVEHIGNLQANAAQODGKDYIVLPMSETLMEEDSGLSLPTSPVSCM 1200
Qy 1201 EEEVCDPKFYNDTAGISHTLQNSKRKRPVSVKTFEDIPLBEPVAVIPDDSGTDSGM 1260
Db 1201 EEEVCDPKFYNDTAGISHTLQNSKRKRPVSVKTFEDIPLBEPVAVIPDDSGTDSGM 1260
Qy 1261 VLASEELKTLIEDRNKLSPFGGMPKSKRESVASGNSQTSYGOSYHSDDTTIVVSSD 1320
Db 1261 VLASEELKTLIEDRNKLSPFGGMPKSKRESVASGNSQTSYGOSYHSDDTTIVVSSD 1320
Qy 1321 EAGLLKXVDAVHADSGTTLR 1341
Db 1321 EAGLLKXVDAVHADSGTTLQ 1341

RESULT 15
PCT-US92-09893-6
Sequence 6, Application PC/TUS9209893
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
TITLE OF INVENTION: RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varlock Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/09893
FILING DATE: 19921116
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7PT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-09893-6

Query Match 99.3%; Score 6994; DB 4; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
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Db 61 WLPNARDSEERLVTVECGGDSIPCKTLIPRVVNDGTCAYKSRVDVIASTVYVYV 120
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Db 361 APDIKMYRNRPYESNTMTVGEDELTIMEYTERDAGVYVILNPMISEKQSHVSLVN 420
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Job time : 33 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 30, 2006, 11:52:30 ; Search time 121 Seconds
(without alignments)
4644.466 Million cell updates/sec

Title: US-10-090-183-6
Perfect score: 7046
Sequence: 1 MESKALLAVALMFCVETRAA.....KMDAAVHADSGTILRSPDV 1345

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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4: /cgn2_6/ptodata/1/pubppaa/US10A_PUBCOMB.dep:*
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6: /cgn2_6/ptodata/1/pubppaa/US11_PUBCOMB.dep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No	Score	Query Match	Length	DB ID	Description
1	7046	100.0	1345	4	US-10-090-183-6 Sequence 6, Appl1
2	7020	99.6	1367	3	US-09-766-678-2 Sequence 2, Appl1
3	7020	99.6	1367	4	US-10-165-193A-10 Sequence 10, Appl1
4	7020	99.6	1367	5	US-10-799-782-2 Sequence 2, Appl1
5	6994	99.3	1367	3	US-09-919-408-6 Sequence 6, Appl1
6	6994	99.3	1367	3	US-09-872-136-6 Sequence 6, Appl1
7	6994	99.3	1367	5	US-10-639-603-6 Sequence 6, Appl1
8	6994	99.3	1367	6	US-11-030-539-6 Sequence 6, Appl1
9	6127.5	87.0	1356	4	US-10-022-939-2 Sequence 2, Appl1
10	6127.5	87.0	1356	4	US-10-100-405A-2 Sequence 2, Appl1
11	6127.5	87.0	1356	4	US-10-327-414-6 Sequence 6, Appl1
12	6127.5	87.0	1356	4	US-10-165-193A-11 Sequence 11, Appl1
13	6124.5	86.9	1356	4	US-10-090-183-2 Sequence 2, Appl1
14	6124.5	86.9	1356	4	US-10-394-322A-66 Sequence 66, Appl1
15	6124.5	86.9	1356	4	US-10-440-464-129 Sequence 129, Appl1
16	6124.5	86.9	1356	5	US-10-783-528-61 Sequence 61, Appl1
17	6124.5	86.9	1356	5	US-10-872-198-115 Sequence 115, Appl1
18	6124.5	86.9	1356	5	US-10-741-600-1469 Sequence 1469, Appl1
19	6124.5	86.9	1356	5	US-10-741-600-1471 Sequence 1471, Appl1
20	6124.5	86.9	1356	5	US-10-926-806-10 Sequence 10, Appl1
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22	6124.5	86.9	1356	6	US-11-021-951-115 Sequence 115, Appl1
23	6123.5	86.9	1356	5	US-09-969-037-7 Sequence 7, Appl1
24	6123.5	86.9	1356	5	US-10-763-276-7 Sequence 7, Appl1
25	6092.5	86.5	1354	4	US-10-262-538-30 Sequence 30, Appl1
26	6092.5	86.5	1354	4	US-10-669-176-30 Sequence 30, Appl1
27	5855.5	83.1	1306	5	US-10-741-600-1470 Sequence 1470, Appl1

28	4228	60.0	806	3	US-09-766-678-5 Sequence 5, Appl1
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33	3283	46.6	773	4	US-10-364-949-4 Sequence 4, Appl1
34	3245	46.1	767	4	US-10-105-901-2 Sequence 2, Appl1
35	3240	46.0	764	4	US-10-091-300-85 Sequence 85, Appl1
36	3240	46.0	764	5	US-10-482-630-137 Sequence 137, Appl1
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38	3143	44.6	942	4	US-10-449-609-8 Sequence 8, Appl1
39	3126	44.4	738	4	US-10-425-668-34 Sequence 34, Appl1
40	2792	39.6	664	4	US-10-101-018-13 Sequence 13, Appl1
41	2764.5	39.2	567	4	US-10-327-414-8 Sequence 8, Appl1
42	2746.5	39.0	1363	3	US-09-375-248-19 Sequence 19, Appl1
43	2746.5	39.0	1363	4	US-10-661-740-19 Sequence 19, Appl1
44	2746.5	39.0	1363	5	US-10-473-127-951 Sequence 951, Appl1
45	2733.5	38.8	1368	4	US-10-105-901-34 Sequence 34, Appl1

ALIGNMENTS

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RESULT 1
US-10-090-183-6
; Sequence 6, Application US/10090183
; Publication No. US20030185602A1
; GENERAL INFORMATION:
; APPLICANT: The Scripps Research Institute
; APPLICANT: Ralph A. Reisfeld
; APPLICANT: Andrew G. Niehammer
; APPLICANT: Rong Xiang
; TITLE OF INVENTION: DNA VACCINE AGAINST PROLIFERATING
; TITLE OF INVENTION: ENDOTHELIAL CELLS AND METHODS OF USE THEREOF
; FILE REFERENCE: TSRI-829.0
; CURRENT APPLICATION NUMBER: US/10/090,183
; CURRENT FILING DATE: 2002-03-02
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1345
; TYPE: PRT
; ORGANISM: mouse
US-10-090-183-6

Query Match      100.0%  Score 7046; DB 4; Length 1345;
Best Local Similarity 100.0%  Pred. No. 0;
Matches 1345; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2
 US-09-766-678-2
 ; Sequence 2, Application US/09766678
 ; Patent No. US20020081650A1

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; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; Rissau, Werner
; Mllauer, Birgit
; Gazit, Aviv
; Levitzki, Alex
; TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
; Endothelial Growth Factor
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/766,678
; FILING DATE: 25-Jan-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/193,829
; FILING DATE: 09-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-060
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; TELE: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
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US-09-766-678-2

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DB 1021 KCIRHDLAARNIILSEKKNVVKICDFGLARDYKDDVYRKGDARLPLKMAPEITTFDRVY 1080
QY 1081 TIQSDVMSFGVLLMEIFSLGASPYPGVKIDEBFCRLKEGTRMARADYTTPEMYQTMDC 1140
DB 1081 TIQSDVMSFGVLLMEIFSLGASPYPGVKIDEBFCRLKEGTRMARADYTTPEMYQTMDC 1140
QY 1141 WHEDPNQPSFSELVEHIGNLLOANAQODGKYIYLPMSETLSMEDSGLSPTS PVS CM 1200
DB 1141 WHEDPNQPSFSELVEHIGNLLOANAQODGKYIYLPMSETLSMEDSGLSPTS PVS CM 1200
QY 1201 EEBEVCDBKPHYDNTAGISHTYKNSKRKRPVSVKTFPDIPLEEBEVAVIPDDOSTDSCM 1260
DB 1201 EEBEVCDBKPHYDNTAGISHTYKNSKRKRPVSVKTFPDIPLEEBEVAVIPDDOSTDSCM 1260
QY 1261 VLASEBELKLTLEDRLNLSPSFGGMPSKRESVASGNSQTSYGSGYHSDDTDTTVYSSD 1320
DB 1261 VLASEBELKLTLEDRLNLSPSFGGMPSKRESVASGNSQTSYGSGYHSDDTDTTVYSSD 1320
QY 1321 EAGLLKMYDAVHADSGTTLR 1341
DB 1321 EAGLLKMYDAVHADSGTTLR 1341

RESULT 3
US-10-165-193A-10
; Sequence 10, Application US/10165193A
; Publication No. US2003020791A1

/ GENERAL INFORMATION:
/ APPLICANT: HELEN PAPA
/ TITLE OF INVENTION: BINDING PROTEIN
/ FILE REFERENCE: 1396-1-00
/ CURRENT FILING DATE: 2003-01-13
/ PRIOR FILING DATE: 2000-12-07
/ PRIOR FILING DATE: 2000-12-07
/ PRIOR FILING DATE: 1999-12-07
/ NUMBER OF SEQ ID NOS: 16
/ SOFTWARE: SeqMan9, version 1.02
/ SEQ ID NO: 10
/ LENGTH: 1367
/ TYPE: PRT
/ ORGANISM: Mus musculus
US-10-165-193A-10
Query Match 99.6%; Score 7020; DB 4; Length 1367;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MESKALLAVALMFCVETPAASVGLTGDPLHPKUSTOQDILITLANTLLOITCRGQRLD 60
DB 1 MESKALLAVALMFCVETPAASVGLTGDPLHPKUSTOQDILITLANTLLOITCRGQRLD 60
QY 61 WLMPPAQRDSERVLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSYRDVDIASTVYVYV 120
DB 61 WLMPPAQRDSERVLVTECGGSDSIFCKTLTIPRVGNDTGAYKCSYRDVDIASTVYVYV 120
QY 121 RDNSSPFIASVSDQGIYIITENKNTVIVPCRGISIMNLANSICARYPEKSPVDPGRNIS 180
DB 121 RDNSSPFIASVSDQGIYIITENKNTVIVPCRGISIMNLANSICARYPEKSPVDPGRNIS 180
QY 181 WDSIEGFLPSYMTISYAGMVFCEAKINDETQSYTYVYVYGYRIYVILSPHEIEISA 240
DB 181 WDSIEGFLPSYMTISYAGMVFCEAKINDETQSYTYVYVYGYRIYVILSPHEIEISA 240
QY 241 GEKLVNCTARTELNVGIDFTWHSPPSKSHHKIYNRPVKKPFGVAAKPLSTLTIESVT 300
DB 241 GEKLVNCTARTELNVGIDFTWHSPPSKSHHKIYNRPVKKPFGVAAKPLSTLTIESVT 300
QY 301 KSDQGEYTCVASSGMIKRNRTFVVRHTKPIAFSGSKSLVEATVGSQVRI PVKYLSTP 360
DB 301 KSDQGEYTCVASSGMIKRNRTFVVRHTKPIAFSGSKSLVEATVGSQVRI PVKYLSTP 360
QY 361 APDIKWNKGRPIESNYTMI VGEDELTIMEVTERDAGNTVITLTPNPSMEKOSHMSLVVN 420
DB 361 APDIKWNKGRPIESNYTMI VGEDELTIMEVTERDAGNTVITLTPNPSMEKOSHMSLVVN 420
QY 421 VPPOIGKALISPMSYQYGTMTLCTVYANPPLHHTQWVQLEBACSYRPGQTSYPAC 480
DB 421 VPPOIGKALISPMSYQYGTMTLCTVYANPPLHHTQWVQLEBACSYRPGQTSYPAC 480
QY 481 KEMHVEDFOGKNKIEVTKNOYALIEGKNKTVSTLVIQANVSALYKCEAIKARGERY 540
DB 481 KEMHVEDFOGKNKIEVTKNOYALIEGKNKTVSTLVIQANVSALYKCEAIKARGERY 540
QY 541 ISFHVIRGEPEITVPAQAPTEQESVSLCTADRNTPENLTYKLGSOATSVHMGESLTPV 600
DB 541 ISFHVIRGEPEITVPAQAPTEQESVSLCTADRNTPENLTYKLGSOATSVHMGESLTPV 600
QY 601 CKNDALMKLNGTMSNSTNDILLVAFQNASLODQGDVYCSAODKTKRRCCLVQQLITL 660
DB 601 CKNDALMKLNGTMSNSTNDILLVAFQNASLODQGDVYCSAODKTKRRCCLVQQLITL 660
QY 661 ERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
QY 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780
DB 721 TIRVRKEDGGLYTQACNVIGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780

QY 791 VIIVTVRANEGELKTGYLSIVMPDDELPLDERCERLPYDASXKWEFPRDRKLGKPLGR 840
DB 791 VIIVTVRANEGELKTGYLSIVMPDDELPLDERCERLPYDASXKWEFPRDRKLGKPLGR 840
QY 841 GAFQGVIEADAFGIDIKTATCKTVAVKMLKEGATHEBHRLMSELKILHGHHLNVNLL 900
DB 841 GAFQGVIEADAFGIDIKTATCKTVAVKMLKEGATHEBHRLMSELKILHGHHLNVNLL 900
QY 901 GACTKPGPLMVIYEFCKFGNLSTYLKGRNEFVYKSKGAFROGKDYVGLSYDLRR 960
DB 901 GACTKPGPLMVIYEFCKFGNLSTYLKGRNEFVYKSKGAFROGKDYVGLSYDLRR 960
QY 961 LDSITSSQSSASGVEEKSLSIDVEEASEELYKDFLLEHLICYSFOVAKGMEFLASR 1020
DB 961 LDSITSSQSSASGVEEKSLSIDVEEASEELYKDFLLEHLICYSFOVAKGMEFLASR 1020
QY 1021 KCIHDLAARNLLEBKRVVKICDFGLARDIKDDYRKGDARLPLKMAPEITFDYVY 1080
DB 1021 KCIHDLAARNLLEBKRVVKICDFGLARDIKDDYRKGDARLPLKMAPEITFDYVY 1080
QY 1081 TIQSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYQTMDC 1140
DB 1081 TIQSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYQTMDC 1140
QY 1141 WHEDNQPSPSELYVEHLGNLLQANAOQDKDYIVLPMSETLSMEDSGLSLPTSPVSCM 1200
DB 1141 WHEDNQPSPSELYVEHLGNLLQANAOQDKDYIVLPMSETLSMEDSGLSLPTSPVSCM 1200
QY 1201 EEEEDCKDFHYDNAGISHYLQNSKRKSRPVSVTFEDIPLEBEVAVIIPDDSGTDSGM 1260
DB 1201 EEEEDCKDFHYDNAGISHYLQNSKRKSRPVSVTFEDIPLEBEVAVIIPDDSGTDSGM 1260
QY 1261 VLASEELKTLIEDRNLSPSGGMPKSKRESVASGNSQTSYGSGHSDDTDTTVVSSD 1320
DB 1261 VLASEELKTLIEDRNLSPSGGMPKSKRESVASGNSQTSYGSGHSDDTDTTVVSSD 1320
QY 1321 EAGLLKMWDAVHADSGTTLR 1341
DB 1321 EAGLLKMWDAVHADSGTTLR 1341

RESULT 4
US-10-799-782-2
Sequence 2, Application US/10799782
Publication No. US20050107321A1
GENERAL INFORMATION:
APPLICANT: Ulirich, Axel
Rissau, Werner
Mullauer, Birgit
Gazic, Avij
Levitckl, Alex
TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
Leviticl, Alex
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESS: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10799,782
FILING DATE: 15-Mar-2004
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/766,678

QY 791 VIIVTVRANEGELKTGYLSIVMPDDELPLDERCERLPYDASXKWEFPRDRKLGKPLGR 840
DB 791 VIIVTVRANEGELKTGYLSIVMPDDELPLDERCERLPYDASXKWEFPRDRKLGKPLGR 840
QY 841 GAFQGVIEADAFGIDIKTATCKTVAVKMLKEGATHEBHRLMSELKILHGHHLNVNLL 900
DB 841 GAFQGVIEADAFGIDIKTATCKTVAVKMLKEGATHEBHRLMSELKILHGHHLNVNLL 900
QY 901 GACTKPGPLMVIYEFCKFGNLSTYLKGRNEFVYKSKGAFROGKDYVGLSYDLRR 960
DB 901 GACTKPGPLMVIYEFCKFGNLSTYLKGRNEFVYKSKGAFROGKDYVGLSYDLRR 960
QY 961 LDSITSSQSSASGVEEKSLSIDVEEASEELYKDFLLEHLICYSFOVAKGMEFLASR 1020
DB 961 LDSITSSQSSASGVEEKSLSIDVEEASEELYKDFLLEHLICYSFOVAKGMEFLASR 1020
QY 1021 KCIHDLAARNLLEBKRVVKICDFGLARDIKDDYRKGDARLPLKMAPEITFDYVY 1080
DB 1021 KCIHDLAARNLLEBKRVVKICDFGLARDIKDDYRKGDARLPLKMAPEITFDYVY 1080
QY 1081 TIQSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYQTMDC 1140
DB 1081 TIQSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYQTMDC 1140
QY 1141 WHEDNQPSPSELYVEHLGNLLQANAOQDKDYIVLPMSETLSMEDSGLSLPTSPVSCM 1200
DB 1141 WHEDNQPSPSELYVEHLGNLLQANAOQDKDYIVLPMSETLSMEDSGLSLPTSPVSCM 1200
QY 1201 EEEEDCKDFHYDNAGISHYLQNSKRKSRPVSVTFEDIPLEBEVAVIIPDDSGTDSGM 1260
DB 1201 EEEEDCKDFHYDNAGISHYLQNSKRKSRPVSVTFEDIPLEBEVAVIIPDDSGTDSGM 1260
QY 1261 VLASEELKTLIEDRNLSPSGGMPKSKRESVASGNSQTSYGSGHSDDTDTTVVSSD 1320
DB 1261 VLASEELKTLIEDRNLSPSGGMPKSKRESVASGNSQTSYGSGHSDDTDTTVVSSD 1320
QY 1321 EAGLLKMWDAVHADSGTTLR 1341
DB 1321 EAGLLKMWDAVHADSGTTLR 1341

Query Match
Best Local Similarity 99.6%; Score 7020; DB 5; Length 1367;
Matches 1340; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
US-10-799-782-2

FILING DATE: 25-Jan-2001
APPLICATION NUMBER: 08/193,829
FILING DATE: 09-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-060
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-799-782-2

QY 1 MESKALLAVALMFCVETRAASVGLTSDFLHPKLGSTQKDIITLIANTTLQITCRGORDLD 60
DB 1 MESKALLAVALMFCVETRAASVGLTSDFLHPKLGSTQKDIITLIANTTLQITCRGORDLD 60
QY 61 WLPNQAQDSBERLVTECGGSDIFCKTLTIPRVGNDGAYKCSRDVDAISTVYVY 120
DB 61 WLPNQAQDSBERLVTECGGSDIFCKTLTIPRVGNDGAYKCSRDVDAISTVYVY 120
QY 121 RDYSPFIASVSDQHGIVYITENKNTVVI PCRSISNLNVSICARYPEKRFVDDGRIS 180
DB 121 RDYSPFIASVSDQHGIVYITENKNTVVI PCRSISNLNVSICARYPEKRFVDDGRIS 180
QY 181 WDSIEGFTLPSYMSIVAGWFCFAKINDETYQSIYIVVVGYRIYDVLISPPHEILSA 240
DB 181 WDSIEGFTLPSYMSIVAGWFCFAKINDETYQSIYIVVVGYRIYDVLISPPHEILSA 240
QY 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKTI VNRDVPFPCTYAKMPLSTLTISVT 300
DB 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKTI VNRDVPFPCTYAKMPLSTLTISVT 300
QY 301 KSDGEYTCVASSGRMKRRTFVRVHTKPFIAFGSKSLVEATVSSQYRI PVKYLSTP 360
DB 301 KSDGEYTCVASSGRMKRRTFVRVHTKPFIAFGSKSLVEATVSSQYRI PVKYLSTP 360
QY 361 APDIKMYRNGRPLESNTYMTIVGDELTIMEYTERDAGNYTVILNPISEKQSHVSLVN 420
DB 361 APDIKMYRNGRPLESNTYMTIVGDELTIMEYTERDAGNYTVILNPISEKQSHVSLVN 420
QY 421 VPPQIGKALISPDSDYQYGTMTCTCTVYANPPLHIIQWYQWOLEKCSRPGTSTYAC 480
DB 421 VPPQIGKALISPDSDYQYGTMTCTCTVYANPPLHIIQWYQWOLEKCSRPGTSTYAC 480
QY 481 KEMRHVEDPQGNKIEYTKQYALIBGNKTVSTLVQAANVSALYCEALINKAGREGRV 540
DB 481 KEMRHVEDPQGNKIEYTKQYALIBGNKTVSTLVQAANVSALYCEALINKAGREGRV 540
QY 541 ISFHVIRGPEITVQPAQPTQESVSLCTADRNTFENLTWYKLGSGATSVHMGESLTPV 600
DB 541 ISFHVIRGPEITVQPAQPTQESVSLCTADRNTFENLTWYKLGSGATSVHMGESLTPV 600
QY 601 CKNLDALMKNMGTFNSSTNDIILVAFQNASLDDQDGYVSADQKTKKXKCLVKQILIL 660
DB 601 CKNLDALMKNMGTFNSSTNDIILVAFQNASLDDQDGYVSADQKTKKXKCLVKQILIL 660
QY 661 ERNAPMTGNLENOTTTIGETIETWCASGNPTPHITWFDONETLVEDSGIYLDGRNLT 720
DB 661 ERNAPMTGNLENOTTTIGETIETWCASGNPTPHITWFDONETLVEDSGIYLDGRNLT 720
QY 721 TIRVRKEDGLYTCQACNVLGCAARETFLIIBGAQEKTNLEVIILVGTAVIAMFWILL 780

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Db      721 TIRRRKDDGGGLYTOACNVGACAAETLFIIEGAEQEKNTLEVIILVGAIVAMFWMILL 780
Qy      781 VIYLRTRVRANEGELKTGYLSIVMPDELPLDERCERLPYDASKWEFPDRKLKLPGR 840
Db      781 VIYLRTRVRANEGELKTGYLSIVMPDELPLDERCERLPYDASKWEFPDRKLKLPGR 840
Qy      841 GAFQGVIEADAFGIDKTATCKTVAVMKMEKATSEHRLAMSELKILIHIGHILNVNLL 900
Db      841 GAFQGVIEADAFGIDKTATCKTVAVMKMEKATSEHRLAMSELKILIHIGHILNVNLL 900
Qy      901 GACTPFGPGLMYIVFECFGRNLTSLRGKRNFPVYKSGARFRQCKDYVGLSLDLKR 960
Db      901 GACTPFGPGLMYIVFECFGRNLTSLRGKRNFPVYKSGARFRQCKDYVGLSLDLKR 960
Qy      961 LDSITSQSSASGSGVEEKSLSDVEEBSEELYKDFLLEHLICYSFQVAKGMEFLASR 1020
Db      961 LDSITSQSSASGSGVEEKSLSDVEEBSEELYKDFLLEHLICYSFQVAKGMEFLASR 1020
Qy      1021 KCIRHDLAARNILSEKQNVVKICDGLARDIYKDPYVRKGDARLPKMAPEITIFDRY 1080
Db      1021 KCIRHDLAARNILSEKQNVVKICDGLARDIYKDPYVRKGDARLPKMAPEITIFDRY 1080
Qy      1081 TIQSVWMSFGVYLMEIFSLGASPIYGVKIDEEFCRLKGTMRAPDYTTPEMYQTMDC 1140
Db      1081 TIQSVWMSFGVYLMEIFSLGASPIYGVKIDEEFCRLKGTMRAPDYTTPEMYQTMDC 1140
Qy      1141 WHEDNORPSEFELVEHGNLLQANAQDGKDIYLPMSSETLSMEDGSLPTSPVSCM 1200
Db      1141 WHEDNORPSEFELVEHGNLLQANAQDGKDIYLPMSSETLSMEDGSLPTSPVSCM 1200
Qy      1201 EEEVCDKPFHYDNTAGISHYLQNSKRKSPVSVKTFEDIPLEPEBVKIPDQSOTDSGM 1260
Db      1201 EEEVCDKPFHYDNTAGISHYLQNSKRKSPVSVKTFEDIPLEPEBVKIPDQSOTDSGM 1260
Qy      1261 VLASEELKLTEDRNKLSPSFGGMPKSKRESVASGSGNSQTSYGQSHSDDTTIVYSSD 1320
Db      1261 VLASEELKLTEDRNKLSPSFGGMPKSKRESVASGSGNSQTSYGQSHSDDTTIVYSSD 1320
Qy      1321 EAGLLKQWDAVHADSGTTLR 1341
Db      1321 EAGLLKQWDAVHADSGTTLR 1341

RESULT 5
US-09-919-408-6
Sequence 6, Application US/09919408
Patent No. US2002072077A1
GENERAL INFORMATION:
APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESS: Imclone Systems Incorporated
STREET: 180 Varlick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/919,408
FILING DATE: 31-Jul-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/977,451
FILING DATE: <Unknown>
APPLICATION NUMBER: US 07/906,397

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FILING DATE: 26-JUN-1992
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Feit, Iyting N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-919-408-6

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Query Match          99.3%; Score 6994; DB 3; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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Qy      1 MESKLLAVALMPCYETRAASVGLTGDFLHPKSLSTOKDILITLANTLTQTCRQDRD 60
Db      1 MESKLLAVALMPCYETRAASVGLTGDFLHPKSLSTOKDILITLANTLTQTCRQDRD 60
Qy      61 WLPWAQRDSERVLVYECGGGDSIFCKTLTPRVVGNDDGAYKCSYSDVDVIASVYVYV 120
Db      61 WLPWAQRDSERVLVYECGGGDSIFCKTLTPRVVGNDDGAYKCSYSDVDVIASVYVYV 120
Qy      121 RYSPFIASVSDQGIYVITENKNTVIPCGRSISMLNYSLCARYEKEKFPDGNRIS 180
Db      121 RYSPFIASVSDQGIYVITENKNTVIPCGRSISMLNYSLCARYEKEKFPDGNRIS 180
Qy      181 WDSEIGFTLPSYMSIYAGVFCCEAKINDEYQSIWYIVVVVGYRIYDVIISPPHEIELSA 240
Db      181 WDSEIGFTLPSYMSIYAGVFCCEAKINDEYQSIWYIVVVVGYRIYDVIISPPHEIELSA 240
Qy      241 GEKLVNCTATTELVNGLDFTWHSPPSKSHKKTIVNRVYKPPGVVAMCFSLTITEBVT 300
Db      241 GEKLVNCTATTELVNGLDFTWHSPPSKSHKKTIVNRVYKPPGVVAMCFSLTITEBVT 300
Qy      301 KSDQGEYTCVASSGGMIRKNTFVRVHTKPFIAFGSGKSLVEATVGSQVRIPVKYLSTP 360
Db      301 KSDQGEYTCVASSGGMIRKNTFVRVHTKPFIAFGSGKSLVEATVGSQVRIPVKYLSTP 360
Qy      361 APDIKWYRNGRPPIESNTYIMVDELITIMEYTERDAGNTYVILINPISMEKOSHMSVLYVN 420
Db      361 APDIKWYRNGRPPIESNTYIMVDELITIMEYTERDAGNTYVILINPISMEKOSHMSVLYVN 420
Qy      421 VPPOIGEKALISPDYSYGTMTCTCTVYANPPLHNIQWMOLEACSYRPGQSPVAC 480
Db      421 VPPOIGEKALISPDYSYGTMTCTCTVYANPPLHNIQWMOLEACSYRPGQSPVAC 480
Qy      481 KEMRIVEFQSGNKIEVTKNOYALIEGKNTVSTLVIQAAVVSALYKCEALINKAGRGRRV 540
Db      481 KEMRIVEFQSGNKIEVTKNOYALIEGKNTVSTLVIQAAVVSALYKCEALINKAGRGRRV 540
Qy      541 ISFVIRPBITVPPAAQPTBOESVSLCTADRNTFENLTYKLGSAQTSVHMGESLTPV 600

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541 ISFHVIRGPEITVQPAOPTQESVSLICTADRNTEFNLTWYKLGSOATSVHGESLTPV 600
601 CKNDLALWKLNGTMSNSTNDILVAFQNASLQDGDYVCSAQDCKTKRRHCLVQOLIIL 660
601 CKNDLALWKLNGTMSNSTNDILVAFQNASLQDGDYVCSAQDCKTKRRHCLVQOLIIL 660
661 ERMAPMITGNLENQTTTIGETIEVTCPSASGNETPHITWPKNETLVEDSGIVLRDGNRL 720
661 ERMAPMITGNLENQTTTIGETIEVTCPSASGNETPHITWPKNETLVEDSGIVLRDGNRL 720
721 TIRVRKEDGGVLYTQACNVLCGARAETLFIIEGAEKTNLEVIILVGTAVIAMEFWILL 780
721 TIRVRKEDGGVLYTQACNVLCGARAETLFIIEGAEKTNLEVIILVGTAVIAMEFWILL 780
781 VIVLRTVVRANEGELKTGYLSI VMDPDLPLDERCERLPYDASKWEPFRDLKLGKPLGR 840
781 VIVLRTVVRANEGELKTGYLSI VMDPDLPLDERCERLPYDASKWEPFRDLKLGKPLGR 840
841 GAFQGVTEADAFGIDKTAICTVAVKMLKEGATSEHRALMSELKILIHGHILNVNLL 900
841 GAFQGVTEADAFGIDKTAICTVAVKMLKEGATSEHRALMSELKILIHGHILNVNLL 900
901 GACTKPGGLVAVIYEFCKGMLSTYLRGRNBFVYKSGARFQCKDYVGLSVDLKRR 960
901 GACTKPGGLVAVIYEFCKGMLSTYLRGRNBFVYKSGARFQCKDYVGLSVDLKRR 960
961 LDSITSSQSSASGSGVEEKSLSDYEEERASELYKDFLTLEHLICYSFQVAKGMEFLASR 1020
961 LDSITSSQSSASGSGVEEKSLSDYEEERASELYKDFLTLEHLICYSFQVAKGMEFLASR 1020
1021 KCIRHDLAARNILISEKRVVVICDFGLARDIYKDPDYRKDARLPLKMAPEITFDRVY 1080
1021 KCIRHDLAARNILISEKRVVVICDFGLARDIYKDPDYRKDARLPLKMAPEITFDRVY 1080
1081 TIQSDVMSFGVLWEIFSLGSPYGVKIDEEFCRLKEGTRMRAPDVTTEMTQMLDC 1140
1081 TIQSDVMSFGVLWEIFSLGSPYGVKIDEEFCRLKEGTRMRAPDVTTEMTQMLDC 1140
1141 WHEDPNORPSFSELVEHLGNLQANAOQDGDYIVLPMSSETLSMEEDSGLSPTS PVS CM 1200
1141 WHEDPNORPSFSELVEHLGNLQANAOQDGDYIVLPMSSETLSMEEDSGLSPTS PVS CM 1200
1201 EEEBVCDBKPFHYDNTAGISHYLQNSKRKSRPVSVKTFEEDIPLEBEVKVTPDSDQSDSCM 1260
1201 EEEBVCDBKPFHYDNTAGISHYLQNSKRKSRPVSVKTFEEDIPLEBEVKVTPDSDQSDSCM 1260
1261 VLASEBELKTLIEDRNKLSPSGMMPSKSRRESVASGSGNOTSGYSGHSDDTDTTVYSSD 1320
1261 VLASEBELKTLIEDRNKLSPSGMMPSKSRRESVASGSGNOTSGYSGHSDDTDTTVYSSD 1320
1321 EAGLLKRVDAVHADSGTTLR 1341
1321 EAGLLKRVDAVHADSGTTLQ 1341

RESULT 6
US-09-872-136-6
Sequence 6, Application US/09872136
Patent No. US20020119545A1
GENERAL INFORMATION:
APPLICANT: Lemischka, Thor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/872,136
FILING DATE: 01-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/208,786
FILING DATE: <Unknown>
APPLICATION NUMBER: US/09/021,324
FILING DATE: <Unknown>
APPLICATION NUMBER: US/07/977,451
FILING DATE: 1992-11-19
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: IEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-872-136-6
Query Match 99.3%; Score 6994; DB 3; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSLSTOKDILITLANTTLQITCRGORDLD 60
1 MESKGLAVALMFCVETRAASVGLTGDFLHPKLSLSTOKDILITLANTTLQITCRGORDLD 60
61 WLPNQRDSEERVLVTECGGDSIFCKTLLTPRVGNDTGAYKSYRDVDIASTVYVV 120
61 WLPNQRDSEERVLVTECGGDSIFCKTLLTPRVGNDTGAYKSYRDVDIASTVYVV 120
121 RDYRSPFIASVSDHGVITTEKNKTVVPCGGSISNLNVSICARYPERKFPVDDGNRIS 180
121 RDYRSPFIASVSDHGVITTEKNKTVVPCGGSISNLNVSICARYPERKFPVDDGNRIS 180
181 WDSIEGTLPSYMSYAGWVCEAKINDETYQSIMYIVVVVGYRIYVILSPHEIELSA 240
181 WDSIEGTLPSYMSYAGWVCEAKINDETYQSIMYIVVVVGYRIYVILSPHEIELSA 240
241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKI VNRDVXPFPGTVAKMPLSTLTISVT 300
241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKI VNRDVXPFPGTVAKMPLSTLTISVT 300
301 KSDQGEYTCVASSGRIKRRRTVRVHTKPFILFSGSKSLVEATVDSQVRIPVKYLSYP 360
301 KSDQGEYTCVASSGRIKRRRTVRVHTKPFILFSGSKSLVEATVDSQVRIPVKYLSYP 360

QY 361 APDIIKMYRNGRPIESNYTWI VGEDELTIMEVTERDAGNTVILTPNISMKEKSHMSLVVN 420
DB 361 APDIIKMYRNGRPIESNYTWI VGEDELTIMEVTERDAGNTVILTPNISMKEKSHMSLVVN 420
QY 421 VPPQIGEKALISPMDSYQYGTWQTLCTVYANPPLHHIOWOLEBACSYRPGQTSFYAC 480
DB 421 VPPQIGEKALISPMDSYQYGTWQTLCTVYANPPLHHIOWOLEBACSYRPGQTSFYAC 480
QY 481 KEMRVEDGOGNKIEVTKNOYALIEGKKNKTVSTLVIQANVSALYKCAINKAGGERV 540
DB 481 KEMRVEDGOGNKIEVTKNOYALIEGKKNKTVSTLVIQANVSALYKCAINKAGGERV 540
QY 541 ISFHVIRGEPEITVQPAQPTQESVSLCTADRNTEENLTWYKLSQATSVHMGESLTPV 600
DB 541 ISFHVIRGEPEITVQPAQPTQESVSLCTADRNTEENLTWYKLSQATSVHMGESLTPV 600
QY 601 CKNLDALWKLNGTWFNSNTDILILVAFONASLQDQGVYCSAQDKKTKRHCILVQQLITL 660
DB 601 CKNLDALWKLNGTWFNSNTDILILVAFONASLQDQGVYCSAQDKKTKRHCILVQQLITL 660
QY 661 ERMAMITGNLENQTTTIGETIEVTCPASGNPTPHITWFKMNETLVEDSGIYLRDGNRL 720
DB 661 ERMAMITGNLENQTTTIGETIEVTCPASGNPTPHITWFKMNETLVEDSGIYLRDGNRL 720
QY 721 TIRRVKEDGGLYTQACNVLCGABAEPLFIEGAOEKTNLEVIIIVGTAIVAMPFLL 780
DB 721 TIRRVKEDGGLYTQACNVLCGABAEPLFIEGAOEKTNLEVIIIVGTAIVAMPFLL 780
QY 781 VILVTVKRVANEGELKTYLSI VMDPDELPLDERCERLPYDASKWEPBRDLKLGKPLGR 840
DB 781 VILVTVKRVANEGELKTYLSI VMDPDELPLDERCERLPYDASKWEPBRDLKLGKPLGR 840
QY 841 GAFQGVIEADAFGIDKTAICTKTVANRMLKEGATSEHRALMSELKILHIGHLAVNVL 900
DB 841 GAFQGVIEADAFGIDKTAICTKTVANRMLKEGATSEHRALMSELKILHIGHLAVNVL 900
QY 901 GACTKPGGPLMVIYVFCFKFNLSTYLRGRNRFVYKSGARFRQGXVYVGLSDYDLKR 960
DB 901 GACTKPGGPLMVIYVFCFKFNLSTYLRGRNRFVYKSGARFRQGXVYVGLSDYDLKR 960
QY 961 LDSITSSQSSASGFEVSEKSLSDVEEESAESELYKDFLTLEHLICYSFQVAKMEFLASR 1020
DB 961 LDSITSSQSSASGFEVSEKSLSDVEEESAESELYKDFLTLEHLICYSFQVAKMEFLASR 1020
QY 1021 KCIHRDLAARNILSEKRVVXICDFGLARDIYKDDYVRKGDARLPLKMAPEITFDHY 1080
DB 1021 KCIHRDLAARNILSEKRVVXICDFGLARDIYKDDYVRKGDARLPLKMAPEITFDHY 1080
QY 1081 TIQSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYOTMLDC 1140
DB 1081 TIQSDVMSFGVLLMEIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTPEMYOTMLDC 1140
QY 1141 WHEDPNQRPSPSELVEHLGNLLQANAQDQKDIYLPVSETLMEDESGLSLTPSPVSCM 1200
DB 1141 WHEDPNQRPSPSELVEHLGNLLQANAQDQKDIYLPVSETLMEDESGLSLTPSPVSCM 1200
QY 1201 EEEVCDKRFYDNTAGISHLQNSKRKSRPVSVKTFEDIPLEEBEVYIIPDSQTDSCM 1260
DB 1201 EEEVCDKRFYDNTAGISHLQNSKRKSRPVSVKTFEDIPLEEBEVYIIPDSQTDSCM 1260
QY 1261 VLASEBELKTLIEDRNKLSFGGMPSPKSRVASEGSGNOTSGYSGYSDDDPTTVYSSD 1320
DB 1261 VLASEBELKTLIEDRNKLSFGGMPSPKSRVASEGSGNOTSGYSGYSDDDPTTVYSSD 1320
QY 1321 EAGLLKWDAAVHADSGTTLR 1341
DB 1321 EAGLLKWDAAVHADSGTTLR 1341

RESULT 7
US-10-639-603-6
Sequence 6, Application US/10639603

Publication No. US20050003365A1
GENERAL INFORMATION:
APPLICANT: Lemischke, Thor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL RECEPTORS AND THEIR LIGANDS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESS: Imclone Systems Incorporated
STREET: 180 Varick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10014
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/639,603
FILING DATE: 11-Aug-2003
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/977,451
FILING DATE: 11-NOV-1995
APPLICATION NUMBER: US UNASSIGNED
FILING DATE: 12-NOV-1992
APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992
APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992
APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992
APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991
APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991
APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991
APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Feit, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-639-603-6
Query Match 99.3%; Score 6994; DB 5; Length 1367;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
QY 1 MESKGLAVALMFCVETRAASVGLTGDPLHPKSLSTOKDILITLANTTLQITCRGQRDL 60
DB 1 MESKGLAVALMFCVETRAASVGLTGDPLHPKSLSTOKDILITLANTTLQITCRGQRDL 60
QY 61 WLMNNAQRDSERVLVNRCCGGSDIFCKTLLTPRVNGNDGAYKCSYRDVIASTVYVV 120
DB 61 WLMNNAQRDSERVLVNRCCGGSDIFCKTLLTPRVNGNDGAYKCSYRDVIASTVYVV 120
QY 121 RDVSPFIASVSDHGIVYITENRKNKTVIIPCRGSIINLVSLCARPEKRFVDPGNRIS 180
DB 121 RDVSPFIASVSDHGIVYITENRKNKTVIIPCRGSIINLVSLCARPEKRFVDPGNRIS 180

Db 121 RDYSPFIASVSDOHGIYITENKNTVIVPCRGISLNLANSICARYPEKAFVDPGNRIS 180
QY 181 WDSEIGFTLPSYMIISYAGMVFCEAKINDETQSIWYIVVVVGYRIYDVLSPPEIELISA 240
Db 181 WDSEIGFTLPSYMIISYAGMVFCEAKINDETQSIWYIVVVVGYRIYDVLSPPEIELISA 240
QY 241 GEKLVNCTATTELNVGLDFTWHSPPSKSHHKIVNRPVPCPGVAMFSLTLTIESVT 300
Db 241 GEKLVNCTATTELNVGLDFTWHSPPSKSHHKIVNRPVPCPGVAMFSLTLTIESVT 300
QY 301 KSDGSEYTCVASSGMMIKRNTFVVRHTKPIAFSGSKSLVEATVSGQVRIPIVYKLSYP 360
Db 301 KSDGSEYTCVASSGMMIKRNTFVVRHTKPIAFSGSKSLVEATVSGQVRIPIVYKLSYP 360
QY 361 APDIKWYRNGRPIESNYTMIVGDELTIMEVTERDAGNTVTLITNPISEKOSHWSVLVN 420
Db 361 APDIKWYRNGRPIESNYTMIVGDELTIMEVTERDAGNTVTLITNPISEKOSHWSVLVN 420
QY 421 VPPQIGERALLSPMDSYQYTMQTLCTVYANPPLHIIQWTOLEFASYPGQTSYPAC 480
Db 421 VPPQIGERALLSPMDSYQYTMQTLCTVYANPPLHIIQWTOLEFASYPGQTSYPAC 480
QY 481 KEMRHVEDPQCGNKIEVTKNOYALIEGKNTVSTLVIQANVSALYKCEALINKAGRGERV 540
Db 481 KEMRHVEDPQCGNKIEVTKNOYALIEGKNTVSTLVIQANVSALYKCEALINKAGRGERV 540
QY 541 ISFHVIRGEPIITVPAQPTQESVSLCTADRNTFENLWYKLSQATSVMHBSLTPV 600
Db 541 ISFHVIRGEPIITVPAQPTQESVSLCTADRNTFENLWYKLSQATSVMHBSLTPV 600
QY 601 CKNIDALMKNLNGTMSNSTNDILVAFQNASLQDQGVYCSAOKTKKRCCLVKKOIL 660
Db 601 CKNIDALMKNLNGTMSNSTNDILVAFQNASLQDQGVYCSAOKTKKRCCLVKKOIL 660
QY 661 ERMAPMITGNLENQTTTGETIEVTCPSAGNPTPIITWFKCNETLVEDSGVLADGNRL 720
Db 661 ERMAPMITGNLENQTTTGETIEVTCPSAGNPTPIITWFKCNETLVEDSGVLADGNRL 720
QY 721 TIRVRKEDGGLYTCQACNVLCARAEFTLIEGAQKTNLEVIILVGTAVIANFEMLL 780
Db 721 TIRVRKEDGGLYTCQACNVLCARAEFTLIEGAQKTNLEVIILVGTAVIANFEMLL 780
QY 781 VIVRTYVRANEGELKTGYLSIWDPPDLPLDERGERLPYDASKWEPFRDLKIKGKPLGR 840
Db 781 VIVRTYVRANEGELKTGYLSIWDPPDLPLDERGERLPYDASKWEPFRDLKIKGKPLGR 840
QY 841 GAFQGVLEADAFGIDKATCKTVAVKMLKEGATSEHRLMSELKILIHGHILNVNLL 900
Db 841 GAFQGVLEADAFGIDKATCKTVAVKMLKEGATSEHRLMSELKILIHGHILNVNLL 900
QY 901 GACTRPGGPLMNVIVEFCCKGNLSTYLGRKNEFVYKSKGARFRQGDYVVELSVDLKRR 960
Db 901 GACTRPGGPLMNVIVEFCCKGNLSTYLGRKNEFVYKSKGARFRQGDYVVELSVDLKRR 960
QY 961 LDSITSSQSSASGCFVEBEKSLSDVEEBEASBELYKDLTLEHLICYSFOVAKMEPLASR 1020
Db 961 LDSITSSQSSASGCFVEBEKSLSDVEEBEASBELYKDLTLEHLICYSFOVAKMEPLASR 1020
QY 1021 KCHIRDLAARVILLSEKVVVVICOPGLARDIYKDPDVYRKGDARLPLKMAPEITIPRVY 1080
Db 1021 KCHIRDLAARVILLSEKVVVVICOPGLARDIYKDPDVYRKGDARLPLKMAPEITIPRVY 1080
QY 1081 TIQSDVMSFVGLWEIFSLGASPYGVKIDEEFCRLKEGRMRAPTYTPEMTQTMDC 1140
Db 1081 TIQSDVMSFVGLWEIFSLGASPYGVKIDEEFCRLKEGRMRAPTYTPEMTQTMDC 1140
QY 1141 WHEDPNORPSPSELVEHLGNLLQANAQDGDYVILPMSETLSMEEDSGLSLPTSVCVM 1200
Db 1141 WHEDPNORPSPSELVEHLGNLLQANAQDGDYVILPMSETLSMEEDSGLSLPTSVCVM 1200
QY 1201 EEEVCPDKPHYNDTAGISHYLQNSKRKSRPVSKTPEIDIPLLEPEYKVIIPDDSQTDSGM 1260
Db 1201 EEEVCPDKPHYNDTAGISHYLQNSKRKSRPVSKTPEIDIPLLEPEYKVIIPDDSQTDSGM 1260

QY 1261 VLASEELKTIEDRNKLSPTFGMMPSKRSRESVASEGNSQTSYGYSHTDPTTYYSSD 1320
Db 1261 VLASEELKTIEDRNKLSPTFGMMPSKRSRESVASEGNSQTSYGYSHTDPTTYYSSD 1320
QY 1321 EAGLLKRVDAVHADSGTTLR 1341
Db 1321 EAGLLKRVDAVHADSGTTLQ 1341

RESULT 8

US-11-030-539-6

Sequence 6, Application US/11030539
Publication No. US20050176102A1

GENERAL INFORMATION:

APPLICANT: Lemischka, Ihor R.
TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL RECEPTORS AND THEIR LIGANDS

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:
ADDRESSEE: Imclone Systems Incorporated
STREET: 180 Varick Street
CITY: New York
STATE: New York
COUNTRY: U.S.A.

ZIP: 10014

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/030,539
FILING DATE: 05-Jan-2005

CLASSIFICATION: <Unknown>

PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/07/977,451
FILING DATE: 19-NOV-1992APPLICATION NUMBER: US UNASSIGNED
FILING DATE: 12-NOV-1992APPLICATION NUMBER: US 07/906,397
FILING DATE: 26-JUN-1992APPLICATION NUMBER: US PCT/US92/05401
FILING DATE: 26-JUN-1992APPLICATION NUMBER: TW 81102961
FILING DATE: 15-APR-1992APPLICATION NUMBER: US PCT/US92/02750
FILING DATE: 02-APR-1992APPLICATION NUMBER: US 07/813,593
FILING DATE: 24-DEC-1991APPLICATION NUMBER: US 07/793,065
FILING DATE: 15-NOV-1991APPLICATION NUMBER: US 07/728,913
FILING DATE: 28-JUN-1991APPLICATION NUMBER: US 07/679,666
FILING DATE: 02-APR-1991ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LEM-3-7PTELECOMMUNICATION INFORMATION:
TELEPHONE: 212-645-1405
TELEFAX: 212-645-2054INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1367 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: proteinSEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-11-030-539-6

Query Match 99.3%; Score 6994; DB 6; Length 1367;

Best Local Similarity 99.6%; Pred. No. 0;
Matches 1335; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 MESKALLAVALMFCVETRAASVGLTGFHPKLSSTOKDILITLANTLITQITCRGORD 60
DB 1 MESKALLAVALMFCVETRAASVGLTGFHPKLSSTOKDILITLANTLITQITCRGORD 60

QY 61 WLMFPAQRDSERVLVTECGGDSIFCKTLTIPRVVNDTGAYKCSYRVDVIASTVYVYV 120
DB 61 WLMFPAQRDSERVLVTECGGDSIFCKTLTIPRVVNDTGAYKCSYRVDVIASTVYVYV 120

QY 121 RDYRSPFIASVSDQGIYVITENKNTVYIPCRGISNLNVSGLCARYPEKRFVDPGNRIS 180
DB 121 RDYRSPFIASVSDQGIYVITENKNTVYIPCRGISNLNVSGLCARYPEKRFVDPGNRIS 180

QY 181 WDSEIGFTLPSYMIYAGVVFCEAKINDETYSIMYIVVVGRIYDVILSPHEIELSA 240
DB 181 WDSEIGFTLPSYMIYAGVVFCEAKINDETYSIMYIVVVGRIYDVILSPHEIELSA 240

QY 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIYNRDVCPPGTIVAKMFLSTLTIESV 300
DB 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIYNRDVCPPGTIVAKMFLSTLTIESV 300

QY 301 KSDGEYTCVASSGSMIRKNTFVRVHTKPIAFSGSMKSLVEATVGSQVRIPVKYLSP 360
DB 301 KSDGEYTCVASSGSMIRKNTFVRVHTKPIAFSGSMKSLVEATVGSQVRIPVKYLSP 360

QY 361 APDIWYRNAGRPIESNYTMIVDELTIVETVRDAGNTVILTNISMEKOSHMSLVYN 420
DB 361 APDIWYRNAGRPIESNYTMIVDELTIVETVRDAGNTVILTNISMEKOSHMSLVYN 420

QY 421 VPPOIGEKALISPMOSYOGTMOQLTCYVYANPPLHHIOMWQLEBASCYRGQTSYPAC 480
DB 421 VPPOIGEKALISPMOSYOGTMOQLTCYVYANPPLHHIOMWQLEBASCYRGQTSYPAC 480

QY 481 KEMRWEDPQGGNKILETKNOYALIEGKNKTSTLVIQANVSALYKCEAIKARGGRV 540
DB 481 KEMRWEDPQGGNKILETKNOYALIEGKNKTSTLVIQANVSALYKCEAIKARGGRV 540

QY 541 ISFHHIRPEITVQPAAPTEBESVSLCTADRNFENLTKYKLSQATSYMGSSTLPV 600
DB 541 ISFHHIRPEITVQPAAPTEBESVSLCTADRNFENLTKYKLSQATSYMGSSTLPV 600

QY 601 CKNDALWKLNGTMSNTNDILIAFONASLODGDYVCSAQDCKTKRHLVYQQLIL 660
DB 601 CKNDALWKLNGTMSNTNDILIAFONASLODGDYVCSAQDCKTKRHLVYQQLIL 660

QY 661 ERMAPMITGNLENQTTIGETILEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMITGNLENQTTIGETILEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720

QY 721 TIRRRKEDDGLYTQACNVJGCAAEFLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780
DB 721 TIRRRKEDDGLYTQACNVJGCAAEFLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780

QY 781 VIVLRVIRANBEGELKTGYLSVMDPDLDERCERLPYDASKKEPRDRDKGKPLGR 840
DB 781 VIVLRVIRANBEGELKTGYLSVMDPDLDERCERLPYDASKKEPRDRDKGKPLGR 840

QY 841 GAFQGVLEADAFGLDKTATCTKTAVKMLKEGATSEHRLMSELKILIHIGHILNVNLL 900
DB 841 GAFQGVLEADAFGLDKTATCTKTAVKMLKEGATSEHRLMSELKILIHIGHILNVNLL 900

QY 901 GACTKPGGPLVYIEFCFKGNLSTYLRGRNEFVYKSGARFRQGDYVGBLSVDLKR 960
DB 901 GACTKPGGPLVYIEFCFKGNLSTYLRGRNEFVYKSGARFRQGDYVGBLSVDLKR 960

QY 961 LDSITSSGSSASSGVEEKSLSVDEEBASELYMDPLTLEHLITCYSPQVAKGMEFLASR 1020
DB 961 LDSITSSGSSASSGVEEKSLSVDEEBASELYMDPLTLEHLITCYSPQVAKGMEFLASR 1020

QY 1021 KCIRHDLAARNILSEKNVVKICDFGLARDIYKDDPYRKGADAPLTKMMAPEITFDYRY 1080
DB 1021 KCIRHDLAARNILSEKNVVKICDFGLARDIYKDDPYRKGADAPLTKMMAPEITFDYRY 1080

DB 1021 KCIRHDLAARNILSEKNVVKICDFGLARDIYKDDPYRKGADAPLTKMMAPEITFDYRY 1080

QY 1081 TIQSDWSPGCVLMEIFSLIGASPYPGVKIDEFCRRLKEGRMARADYTPPMYOTMDC 1140
DB 1081 TIQSDWSPGCVLMEIFSLIGASPYPGVKIDEFCRRLKEGRMARADYTPPMYOTMDC 1140

QY 1141 WHEDNORPSFSELVEHGNLLOANAODGKDIYVLPMSSETLSMEEDSGLSLTPSPVSCM 1200
DB 1141 WHEDNORPSFSELVEHGNLLOANAODGKDIYVLPMSSETLSMEEDSGLSLTPSPVSCM 1200

QY 1201 BEEVCDPKFHYDNTAGISHTYONSKRKSRYSVTTFEDIPLBEPYKVIIPDSQTDSCM 1260
DB 1201 BEEVCDPKFHYDNTAGISHTYONSKRKSRYSVTTFEDIPLBEPYKVIIPDSQTDSCM 1260

QY 1261 VLAASELTLEDRNLSPSPGGMPSKRESVASEGNSQTSYGOSGYSDDDTTVYSSD 1320
DB 1261 VLAASELTLEDRNLSPSPGGMPSKRESVASEGNSQTSYGOSGYSDDDTTVYSSD 1320

QY 1321 EAGLLKMYDAVHADSGTTLR 1341
DB 1321 EAGLLKMYDAVHADSGTTLQ 1341

RESULT 9
US-10-022-939-2
; Sequence 2, Application US/10022939
; Publication No. US20030032160A1
; GENERAL INFORMATION:
; APPLICANT: Kendall, Richard L.
; APPLICANT: Thomas, Kenneth A.
; APPLICANT: Mao, Xianzhi
; APPLICANT: Tebben, Andrew
; TITLE OF INVENTION: HUMAN RECEPTOR TYROSINE KINASE, KDR
; FILE REFERENCE: 19963YDB
; CURRENT APPLICATION NUMBER: US/10/022,939
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 09/483,539
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 09/098,707
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/050,962
; PRIOR FILING DATE: 1997-06-18
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: Human
US-10-022-939-2

Query Match 87.0%; Score 6127.5; DB 4; Length 1356;
Best Local Similarity 85.8%; Pred. No. 0;
Matches 1165; Conservative 71; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESKALLAVALMFCVETRAASVGLTGFHPKLSSTOKDILITLANTLITQITCRGORD 60
DB 1 MESKALLAVALMFCVETRAASVGLTGFHPKLSSTOKDILITLANTLITQITCRGORD 60

QY 61 WLMFPAQRDSERVLVTECGGDSIFCKTLTIPRVVNDTGAYKCSYRVDVIASTVYVYV 120
DB 61 WLMFPAQRDSERVLVTECGGDSIFCKTLTIPRVVNDTGAYKCSYRVDVIASTVYVYV 120

QY 121 RDYRSPFIASVSDQGIYVITENKNTVYIPCRGISNLNVSGLCARYPEKRFVDPGNRIS 180
DB 121 RDYRSPFIASVSDQGIYVITENKNTVYIPCRGISNLNVSGLCARYPEKRFVDPGNRIS 180

QY 181 WDSEIGFTLPSYMIYAGVVFCEAKINDETYSIMYIVVVGRIYDVILSPHEIELSA 240
DB 181 WDSEIGFTLPSYMIYAGVVFCEAKINDETYSIMYIVVVGRIYDVILSPHEIELSA 240

QY 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIYNRDVCPPGTIVAKMFLSTLTIESV 300
DB 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIYNRDVCPPGTIVAKMFLSTLTIESV 300

QY 301 KSDGEYTCVASSGSMIRKNTFVRVHTKPIAFSGSMKSLVEATVGSQVRIPVKYLSP 360
DB 301 KSDGEYTCVASSGSMIRKNTFVRVHTKPIAFSGSMKSLVEATVGSQVRIPVKYLSP 360

QY 361 APDIWYRNAGRPIESNYTMIVDELTIVETVRDAGNTVILTNISMEKOSHMSLVYN 420
DB 361 APDIWYRNAGRPIESNYTMIVDELTIVETVRDAGNTVILTNISMEKOSHMSLVYN 420

QY 421 VPPOIGEKALISPMOSYOGTMOQLTCYVYANPPLHHIOMWQLEBASCYRGQTSYPAC 480
DB 421 VPPOIGEKALISPMOSYOGTMOQLTCYVYANPPLHHIOMWQLEBASCYRGQTSYPAC 480

QY 481 KEMRWEDPQGGNKILETKNOYALIEGKNKTSTLVIQANVSALYKCEAIKARGGRV 540
DB 481 KEMRWEDPQGGNKILETKNOYALIEGKNKTSTLVIQANVSALYKCEAIKARGGRV 540

QY 541 ISFHHIRPEITVQPAAPTEBESVSLCTADRNFENLTKYKLSQATSYMGSSTLPV 600
DB 541 ISFHHIRPEITVQPAAPTEBESVSLCTADRNFENLTKYKLSQATSYMGSSTLPV 600

QY 601 CKNDALWKLNGTMSNTNDILIAFONASLODGDYVCSAQDCKTKRHLVYQQLIL 660
DB 601 CKNDALWKLNGTMSNTNDILIAFONASLODGDYVCSAQDCKTKRHLVYQQLIL 660

QY 661 ERMAPMITGNLENQTTIGETILEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720
DB 661 ERMAPMITGNLENQTTIGETILEVTCPASGNPTPHITWFKONETLVEDSGIVLRDGNRL 720

QY 721 TIRRRKEDDGLYTQACNVJGCAAEFLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780
DB 721 TIRRRKEDDGLYTQACNVJGCAAEFLFIIEGAQEKTNLEVIILVGTAVIAMEFWILL 780

QY 781 VIVLRVIRANBEGELKTGYLSVMDPDLDERCERLPYDASKKEPRDRDKGKPLGR 840
DB 781 VIVLRVIRANBEGELKTGYLSVMDPDLDERCERLPYDASKKEPRDRDKGKPLGR 840

QY 841 GAFQGVLEADAFGLDKTATCTKTAVKMLKEGATSEHRLMSELKILIHIGHILNVNLL 900
DB 841 GAFQGVLEADAFGLDKTATCTKTAVKMLKEGATSEHRLMSELKILIHIGHILNVNLL 900

QY 901 GACTKPGGPLVYIEFCFKGNLSTYLRGRNEFVYKSGARFRQGDYVGBLSVDLKR 960
DB 901 GACTKPGGPLVYIEFCFKGNLSTYLRGRNEFVYKSGARFRQGDYVGBLSVDLKR 960

QY 961 LDSITSSGSSASSGVEEKSLSVDEEBASELYMDPLTLEHLITCYSPQVAKGMEFLASR 1020
DB 961 LDSITSSGSSASSGVEEKSLSVDEEBASELYMDPLTLEHLITCYSPQVAKGMEFLASR 1020

QY 1021 KCIRHDLAARNILSEKNVVKICDFGLARDIYKDDPYRKGADAPLTKMMAPEITFDYRY 1080
DB 1021 KCIRHDLAARNILSEKNVVKICDFGLARDIYKDDPYRKGADAPLTKMMAPEITFDYRY 1080

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QY 301 KSDGERTVASSGSMIKRRTFVRVTKPFIAGSGMKSIYEATVSGVRIPIVKYLSYP 360
D 299 RSDGLYTCASSSGMTKKNSTFVRVHKPFAVFGSGMESLVEATVGERVRIIPAKYLGYP 358
QY 361 APDIKWYNGRPISNTYMIAGDELTIMEVTERDAGNTVLTLPISMEKQSHVSLVYN 420
D 359 PPEIKMYKNGIPLESNHTIKAGHVLTIMESERDGTGNTVLTLPISKEKQSHVSLVY 418
QY 421 VPPQIGEXKALISPMDSYOGTMOQLTCTVYANPPLHNIQWYMOLEACSYRPGQ----TS 476
D 419 VPPQIGEXKALISPMDSYOGTMOQLTCTVYAIIPPHIHIMWYMOLEECANBPQAVSVTN 478
QY 477 PYACKERHVEDPQGGNKIEVTQYALIEGKNTVSTLVIOANVSALYKCEAINKAGR 536
D 479 PYCEEEMWSEVEDPQGGNKIEVNKQOFALIEGKNTVSTLVIOANVSALYKCEAVNKGR 538
QY 537 GERVISFHVIRGPEITVQPAOPTBOESVSLCTADRTFENLTWYKLGSOATSVHMGES 596
D 539 GERVISFHVIRGPEITVQPAOPTBOESVSLMCTADNSTFENLTWYKLGPOPLIHVGEL 598
QY 597 LTPYCNKLDALMKLNGTWFNSNTDILIVAFONASLODQGDYVCSAODKTKKGCULVKQ 656
D 599 PTPYCNKLDLTKLNTATWFSNSTNDILIMELKMASLODQGDYVCLAQDRKTKKGCULVKQ 658
QY 657 LIIERMAPMTTGNLENOTTTIGETIEVTCASGNPPTHTIWFKNDELTVEDSGIYLRDG 716
D 659 LTVIERVAPITITGNLENOTTIGESIEVSCTAAGNPPEQIMWFKNDELTVEDSGIYLRDG 718
QY 717 NRNLTIRVRKEDGLYTCQACNVLCGARAETFLIFEOAKETNLEVIILVGTAVIAMF 776
D 719 NRNLTIRVRKEDGLYTCQACNVLCGARAETFLIFEOAKETNLEVIILVGTAVIAMF 778
QY 777 WLLVILVIRTVKRANEGELKTGYLSIWDPELPLDERCERLPYDASKMEPRDRRLKLGX 836
D 779 WLLVILVIRTVKRANEGELKTGYLSIWDPELPLDERCERLPYDASKMEPRDRRLKLGX 838
QY 837 PLGGAAGQOYIEADAFGIDKTATCTTAVAVKMLKSGATHSERBALMSEKILIIHGHILNV 896
D 839 PLGGAAGQOYIEADAFGIDKTATCTTAVAVKMLKSGATHSERBALMSEKILIIHGHILNV 898
QY 897 VNLIGACTKPGGPMVIVFPGFNLSTYLRGKNEFPVYKSGARFPGQGDYVSELVD 956
D 899 VNLIGACTKPGGPMVIVFPGFNLSTYLRGKNEFPVYKSGARFPGQGDYVSELVD 958
QY 957 LKRLDLSITSSQSSASSGFVEEKSLSVDEEESEBELYKDFLTLEHLICYSFOYAKGMEF 1016
D 959 LKRLDLSITSSQSSASSGFVEEKSLSVDEEESEBELYKDFLTLEHLICYSFOYAKGMEF 1018
QY 1017 LASKKCIHRDLAANNILISEKNVYKICDFGLARDIYKODPYRKGDARLPKMAPETTF 1076
D 1019 LASKKCIHRDLAANNILISEKNVYKICDFGLARDIYKODPYRKGDARLPKMAPETTF 1078
QY 1077 DRVYITISDVMVSGVILMEIFSLGASPYGVIKIDEBFCRRLKEGTRARAPYTTPEMYQT 1136
D 1079 DRVYITISDVMVSGVILMEIFSLGASPYGVIKIDEBFCRRLKEGTRARAPYTTPEMYQT 1138
QY 1137 MLDGMHEDPNORPSPSELVHILGNLQANAOQDGKDYIVLPMSETLISMEEDSGSLPTSP 1196
D 1139 MLDGMHEDPNORPSPSELVHILGNLQANAOQDGKDYIVLPMSETLISMEEDSGSLPTSP 1198
QY 1197 VSCHEEBEVCDPKHYDNTAGISHLQNSKRSKSPVSKTPEDIPLBEPYKVIIPDSSQT 1256
D 1199 VSCHEEBEVCDPKHYDNTAGISHLQNSKRSKSPVSKTPEDIPLBEPYKVIIPDSSQT 1258
QY 1257 DSGMVLASEBELKTEJEDNRKLSPSFGMMPKSKRSRESVASSEGNQSGVOSGHSDDTDTTV 1316
D 1259 DSGMVLASEBELKTEJEDNRKLSPSFGMMPKSKRSRESVASSEGNQSGVOSGHSDDTDTTV 1318
QY 1317 YSSDEAGLLKMWDAVHA-----DSGTTLRSPV 1345
D 1319 YSSDEAGLLKMWDAVHA-----DSGTTLRSPV 1356
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RESULT 10
US-10-100-405A-2
; Sequence 2, Application US/10100405A
; Publication No. US20030055239A1
GENERAL INFORMATION:
APPLICANT: Kendall, Richard L.
APPLICANT: Thomas, Kenneth A.
APPLICANT: Mao, Xianzh
APPLICANT: Tebben, Andrew
TITLE OF INVENTION: HUMAN RECEPTOR TYROSINE KINASE, KDR
FILE REFERENCE: 19963YDC
CURRENT APPLICATION NUMBER: US/10/100,405A
CURRENT FILING DATE: 2002-08-13
PRIOR APPLICATION NUMBER: 10/022,939
PRIOR FILING DATE: 2001-12-18
PRIOR APPLICATION NUMBER: 09/483,539
PRIOR FILING DATE: 2000-01-14
PRIOR APPLICATION NUMBER: 09/098,707
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/050,962
PRIOR FILING DATE: 1997-06-18
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1356
TYPE: PRT
ORGANISM: Human
US-10-100-405A-2

Query Match 87.0%; Score 6127.5; DB 4; Length 1356;
Best Local Similarity 85.8%; Pred. No. 0;
Matches 1165; Conservative 71; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESKALLAVALMFCVETRAASVGLTGPFLAPPKLSTQKDLITLTANTTLQITCGORDLD 60
D 1 MESKALLAVALMFCVETRAASVGLTGPFLAPPKLSTQKDLITLTANTTLQITCGORDLD 60
QY 61 WLMFNAQRDEERLVLYTECGGDSIFCKTLTTPRVGNDTGAAYKSYRDVIASTVYVY 120
D 61 WLMFNAQRDEERLVLYTECGGDSIFCKTLTTPRVGNDTGAAYKSYRDVIASTVYVY 118
QY 121 RDYRSPFIASVSOHGIVYITENKNTVYIPCKGSIINLNVSLCARPEKRPVDDGRIS 180
D 119 QDYRSPFIASVSOHGIVYITENKNTVYIPCKGSIINLNVSLCARPEKRPVDDGRIS 178
QY 181 WDEIFGTLPSYMSISYAGWFCCEKINDETQOSIMYVVVVYGVYIVVISPHEIELSA 240
D 179 WDEIFGTLPSYMSISYAGWFCCEKINDETQOSIMYVVVVYGVYIVVISPHEIELSA 238
QY 241 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIIVNRDVKPFGTVAKMFLSTLTIESVT 300
D 239 GEKLVNCTARTELNVGLDFTWHSPPSKSHKKIIVNRDVKPFGTVAKMFLSTLTIESVT 298
QY 301 KSDGERTVASSGSMIKRRTFVRVTKPFIAGSGMKSIYEATVSGVRIPIVKYLSYP 360
D 299 RSDGLYTCASSSGMTKKNSTFVRVHKPFAVFGSGMESLVEATVGERVRIIPAKYLGYP 358
QY 421 VPPQIGEXKALISPMDSYOGTMOQLTCTVYANPPLHNIQWYMOLEACSYRPGQ----TS 476
D 419 VPPQIGEXKALISPMDSYOGTMOQLTCTVYAIIPPHIHIMWYMOLEECANBPQAVSVTN 478
QY 477 PYACKERHVEDPQGGNKIEVTQYALIEGKNTVSTLVIOANVSALYKCEAINKAGR 536
D 479 PYCEEEMWSEVEDPQGGNKIEVNKQOFALIEGKNTVSTLVIOANVSALYKCEAVNKGR 538
QY 537 GERVISFHVIRGPEITVQPAOPTBOESVSLCTADRTFENLTWYKLGSOATSVHMGES 596
D 539 GERVISFHVIRGPEITVQPAOPTBOESVSLMCTADNSTFENLTWYKLGPOPLIHVGEL 598
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QY 597 LTPVCKNDALWKLNGTWFNSSTNDILIVAFQNASLQDQGVYCSAODKTKTKRHCLVQK 656
Db 599 PTPVCKNDLTKLKNATWFSNSTNDILIMELKNASLQDQGVYCLAQDKTKTKRHCLVQK 658
QY 657 LILIERMAMITGNLENQTTTIGETIEVTCPASGNPTPHITWPKONETLVEDSGIYLRDG 716
Db 659 LTVLRVAPITIGNLENQTTISGESIEVCTASGNPPQIMWPKONETLVEDSGIYLRDG 718
QY 717 NNNLTIRRRKEDDGLYTQACNVLCGCAAEFLFIIEGQEKTNLEVIILVGTAYIANMF 776
Db 719 NNNLTIRRRKEDDGLYTQACNVLCGCAAEFLFIIEGQEKTNLEVIILVGTAYIANMF 778
QY 777 WLLVIVLRTVRRANEGELKTGYLSIYVMDPELPLDERCERLPYDASKMEPRDRCLKGK 836
Db 779 WLLVIVLRTVRRANEGELKTGYLSIYVMDPELPLDERCERLPYDASKMEPRDRCLKGK 838
QY 837 PLGRGAFQGVIEADAFGIDKTATCTVAVKMLKEGATSEHRALMSCLKILIHIGHLNV 896
Db 839 PLGRGAFQGVIEADAFGIDKTATCTVAVKMLKEGATSEHRALMSCLKILIHIGHLNV 898
QY 897 VNLGACTKPGGPLWVYVEFCFGNLSYTLRGRNEFVYKSKGARFRQGDYVGEISVD 956
Db 899 VNLGACTKPGGPLWVYVEFCFGNLSYTLRGRNEFVYKSKGARFRQGDYVGEISVD 958
QY 957 LKRRLDSTITSSQSSASGFEVEEKSLSVDEEESAESELYKDLTLEHLICYSFOVAKGMF 1016
Db 959 LKRRLDSTITSSQSSASGFEVEEKSLSVDEEESAESELYKDLTLEHLICYSFOVAKGMF 1018
QY 1017 LASRCKIHRDLAARNILSEKNVVKICDFGLARDIYKPDYVRKGDARLPLKMAPEITF 1076
Db 1019 LASRCKIHRDLAARNILSEKNVVKICDFGLARDIYKPDYVRKGDARLPLKMAPEITF 1078
QY 1077 DRVYITQSDWVSFGVILMEIFSLGASPYGVKIDEEFCRLKEGTRMARADYTTBMYOT 1136
Db 1079 DRVYITQSDWVSFGVILMEIFSLGASPYGVKIDEEFCRLKEGTRMARADYTTBMYOT 1138
QY 1137 MLDCHHEBPNORPSFSELYEHLGNLLQANAODGKDYILPMSSETLSMEEDSGLSLPTSP 1196
Db 1139 MLDCHHEBPNORPSFSELYEHLGNLLQANAODGKDYILPMSSETLSMEEDSGLSLPTSP 1198
QY 1197 VSCMEEEVCDBKFHYDNTAGISHYLONSKRKSRPVSVKTFPDIPLBEEVAVIIPDDSGT 1256
Db 1199 VSCMEEEVCDBKFHYDNTAGISHYLONSKRKSRPVSVKTFPDIPLBEEVAVIIPDDSGT 1258
QY 1257 DSGMVLASEBELKTLIEDRNLSPSFGGMPFSKRSRESVASEGNSQTSYGOSGHSDDTDTTV 1316
Db 1259 DSGMVLASEBELKTLIEDRNLSPSFGGMPFSKRSRESVASEGNSQTSYGOSGHSDDTDTTV 1318
QY 1317 YSSDEAGLLKQWDAVHA-----DSGTTLRSPV 1345
Db 1319 YSSDEAGLLKQWDAVHA-----DSGTTLRSPV 1346
QY 1319 YSSDEAGLLKQWDAVHA-----DSGTTLRSPV 1345
Db 1319 YSSDEAGLLKQWDAVHA-----DSGTTLRSPV 1346

RESULT 11
US-10-327-414-6
; Sequence 6, Application US/10327414
; Publication No. US20030158083A1
; GENERAL INFORMATION:
; APPLICANT: The Procter & Gamble Company
; APPLICANT: Peters, Kevin G
; TITLE OF INVENTION: A Method of Effecting angiogenesis by Modulating the Function of
; TITLE OF INVENTION: Endocytosis Phosphatase
; FILE REFERENCE: 8864M
; CURRENT APPLICATION NUMBER: US/10/327,414
; CURRENT FILING DATE: 2002-12-20
; PRIOR APPLICATION NUMBER: US 60/355,125
; PRIOR FILING DATE: 2002-02-08
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 1356
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-10-327-414-6
Query Match 87.0%; Score 6127.5; DB 4; Length 1356;
Best Local Similarity 85.8%; Pred. No. 0;
Matches 1165; Conservative 71; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESSKLVNVALMFCVETBAASVGLGDFLHPKSTSTQDILITLANTLQITCRGORD 60
Db 1 MESSKLVNVALMFCVETBAASVGLGDFLHPKSTSTQDILITLANTLQITCRGORD 60
QY 61 WLMFNAQDSEERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYDVIDIASVYVYV 120
Db 61 WLMFNAQDSEERVLVTECGGDSIFCKTLTIPRVGNDTGAYKCSYDVIDIASVYVYV 118
QY 121 RDYSPFLASVSDQHGIVYITENKKTAVIIPCRGSI SNLNSLCLARYPKRFPVPGNRIS 180
Db 119 QDYSRPFLLASVSDQHGIVYITENKKTAVIIPCLGSI SNLNSLCLARYPEKRFVPGNRIS 178
QY 181 WDSLGFTLPSYMIISYAGVPCFAKINDETQSIYIVVVGYRITYDVLSPHELELSA 240
Db 179 WDSKGFITPSYMIISYAGVPCFAKINDESYQSIYIVVVGYRITYDVLSPHIGIELSV 238
QY 241 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKIYNRDUKPPGTAAKFLSTLTIESYT 300
Db 239 GEKVLNCTARTELNVGLDFTWHSPPSKSHHKIYNRDUKPPGTAAKFLSTLTIDGT 298
QY 301 KSDQGYTCVASSGMIKRNRTFVAVHTKPIAFSGSKSIVEATVGSQVRIIPVYLSY 360
Db 299 RSDQGLYTCVASSGMIKRNRTFVAVHTKPIAFSGSKSIVEATVGSQVRIIPVYLSY 358
QY 361 APDIKWNNGAPRIENNYMIVODELTIMELVBRDAGNTVLTNTISMEKSHMSVLYN 420
Db 359 PEIKWYNGAPRIENNYMIVODELTIMELVBRDAGNTVLTNTISMEKSHMSVLYN 418
QY 421 VPPQIGERKALISPMDSYOGTQTLCTVYANPPLHITOMYTOLEBACSYPGQ----TS 476
Db 419 VPPQIGERKALISPMDSYOGTQTLCTVYANPPLHITOMYTOLEBACSYPGQ----TS 478
QY 477 PYACEKHEHVEDPQGNKIEVTKNOYALIEGKNKTVSTLVIOANVASLYKCEAINKGR 536
Db 479 PYACEKHEHVEDPQGNKIEVTKNOYALIEGKNKTVSTLVIOANVASLYKCEAINKGR 538
QY 537 GERVISFHVITGPEITVPAQPTQESVSLCTDRMTFENLTMYKLGPPPLPHVGBL 598
Db 539 GERVISFHVITGPEITVPAQPTQESVSLCTDRMTFENLTMYKLGPPPLPHVGBL 596
QY 597 LTPVCKNDALWKLNGTWFNSSTNDILIVAFQNASLQDQGVYCSAODKTKTKRHCLVQK 656
Db 599 PTPVCKNDLTKLKNATWFSNSTNDILIMELKNASLQDQGVYCLAQDKTKTKRHCLVQK 658
QY 657 LILIERMAMITGNLENQTTTIGETIEVTCPASGNPTPHITWPKONETLVEDSGIYLRDG 716
Db 659 LTVLRVAPITIGNLENQTTISGESIEVCTASGNPPQIMWPKONETLVEDSGIYLRDG 718
QY 717 NNNLTIRRRKEDDGLYTQACNVLCGCAAEFLFIIEGQEKTNLEVIILVGTAYIANMF 776
Db 719 NNNLTIRRRKEDDGLYTQACNVLCGCAAEFLFIIEGQEKTNLEVIILVGTAYIANMF 778
QY 777 WLLVIVLRTVRRANEGELKTGYLSIYVMDPELPLDERCERLPYDASKMEPRDRCLKGK 836
Db 779 WLLVIVLRTVRRANEGELKTGYLSIYVMDPELPLDERCERLPYDASKMEPRDRCLKGK 838
QY 837 PLGRGAFQGVIEADAFGIDKTATCTVAVKMLKEGATSEHRALMSCLKILIHIGHLNV 896
Db 839 PLGRGAFQGVIEADAFGIDKTATCTVAVKMLKEGATSEHRALMSCLKILIHIGHLNV 898
QY 897 VNLGACTKPGGPLWVYVEFCFGNLSYTLRGRNEFVYKSKGARFRQGDYVGEISVD 956
Db 899 VNLGACTKPGGPLWVYVEFCFGNLSYTLRGRNEFVYKSKGARFRQGDYVGEISVD 958
QY 957 LKRRLDSTITSSQSSASGFEVEEKSLSVDEEESAESELYKDLTLEHLICYSFOVAKGMF 1016
Db 959 LKRRLDSTITSSQSSASGFEVEEKSLSVDEEESAESELYKDLTLEHLICYSFOVAKGMF 1018
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Dd	959	LKRRLDSTTSSQSSASSSGFVEKSLSDYBEEBAPDLYKDFULTEHLCTSFQYAKGMF	1018
Qy	1017	LASRKCIRHDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDALPLKMAPEITF	1076
Dd	1019	LASRKCIRHDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDALPLKMAPEITF	1078
Qy	1077	DRVYTIQSDWSPGVLWEIFSLGSPYPGYKIDIEFCRLKEGRMAAPDYTTPEMOT	1136
Dd	1079	DRVYTIQSDWSPGVLWEIFSLGSPYPGYKIDIEFCRLKEGRMAAPDYTTPEMOT	1138
Qy	1137	MLDCHBEDPNORSPSELVEHIGNLQLOANAOODGDYVILPMSETLSNEEDSGLSLPTSP	1196
Dd	1139	MLDCHAGBSPQRPTSELVEHIGNLQLOANAOODGDYVILPMSETLSNEEDSGLSLPTSP	1198
Qy	1197	VSCMEEBEVCDPKFHYDNTAGISHLYLQNSKRSRPSVSKTEFEDILPEBPEVKVLPDQSOT	1256
Dd	1199	VSCMEEBEVCDPKFHYDNTAGISHLYLQNSKRSRPSVSKTEFEDILPEBPEVKVLPDQNT	1258
Qy	1257	DSGMYLASEELKTTIEDRNKLSPSPFGMMPKSKRESVASEGSNQTSGYQSGYHSDDTDTTV	1316
Dd	1259	DSGMYLASEELKTTIEDRTKLSPSPFGMMPKSKRESVASEGSNQTSGYQSGYHSDDTDTTV	1318
Qy	1317	YSSDBAGLLKRVDAVAHA-----DSGTTLRSPV	1345
Dd	1319	YSSBEAEILLKIEGVQGSTAQILQBPDSGTTLSPPV	1356

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RESULT 12
US-10-165-193A-11
Sequence 11, Application US/10165193A
Publication No. US20030207391A1
GENERAL INFORMATION:
APPLICANT: HELEN PAPPA
TITLE OF INVENTION: BINDING PROTEIN
FILE REFERENCE: 1396-1-00
CURRENT APPLICATION NUMBER: US/10/165,193A
CURRENT FILING DATE: 2003-01-13
PRIOR APPLICATION NUMBER: PCT/GB00/04693
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: GB9928950.6
PRIOR FILING DATE: 1999-12-07
NUMBER OF SEQ. ID NOS: 16
SOFTWARE: SeqMan99, version 1.02
SEQ. ID NO. 11
LENGTH: 1356
TYPE: PRT
ORGANISM: Homo sapiens
US-10-165-193A-11

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Query Match	87.0%;	Score 6127.5;	DB 4;	Length 1356;
Best Local Similarity	85.8%;	Pred. No. 0;		
Matches 1165;	Conservative 71;	Mismatches 107;	Indels 15;	Gaps 3;

[illegible]

QY	301	ASDOGEYTCVASSSGRMKIKRNTPPRANTHPKPIAAGSGMKSLVEATVGSQVLPVXYLSYP	360
Db	299	RSDOQLYTCASSSGIMTKKSTFVRVHEKPPFVAGSGMESLVEATVGSERVIPACYLYXP	358
QY	361	APDIKMYENGPRPISBNTYMTVGDELTJMEVEERAGANTVTLTLNPI SMEKOSHMYSLVN	420
Db	359	PPEIKMYNKGPILESNHTIKAGHVLITIMEVERDQNGVTLVTLNPI SKEKSHVSLVY	418
QY	421	VPPQIGECALISPMDSYQGTMOUULLCTCTVYANPPLHNI QMTWOIEACSYRPGQ---TS	476
Db	419	VPPQIGESKSLISPDVSYOYGTTOUULLCTCTVVAIPPHHIMWMOIEECANEPSCAVSYTN	478
QY	477	PYACCEMHVSDPOGANKIEYTKNOVALIEBKNTVSTVLVIOANVSLYCEALNKNAGR	536
Db	479	PYPCEBMRVSDPOGANKIEYVKNOFALIEBKNTVSTVLVIOANVSLYKCEAVNKNAGR	538
QY	537	GERVYSFVIRGPEITVQPAAPTEOESVSLDCTADNTPENLTWYKLGSOATSVHMGES	596
Db	539	GERVYSFVIRGPEITLQPDWQPTOEBSVSLMCTADNRFTENLTWYKLGQPLPHVGL	598
QY	557	LTPCKNIDLAWKINGTMFSNSTDILVAFQANSLDQGGYVCSAOQKTKKRCCLVQ	656
Db	599	PTPCKNIDLTLMKINATMFNSNTDILIMELKNASLDOGGYVCLAOQKTKKRCVVRQ	658
QY	657	LIIEERMAPITGNLENOTTTIGETIEYTCASGAPPTHIMWFKONETLVEDSGIYLRDG	716
Db	659	LTVIERVAPITGNLENOTTISIGSIEVSCASGNPPQIMFMDNETLVEDSGIYLVKDQ	718
QY	717	NRNLTIIRVRKEDGGLYTQACNVLGCARAEPLTPIBGAQEKTNLEVIILVGTAVIAMPF	776
Db	719	NRNLTIIRVRKEDGGLYTQACNVLGCARVAFPIIEGAQEKTNLEIILVGTAVIAMPF	778
QY	777	MLLVIVLRTYKRNBEGLKGTGYLSIYMDPELPLDERCEPLPYDASKWEPRDRLKLGK	836
Db	779	MLLVIIILRTYKRANGELKGTGYLSIYMDPELPLDERCEPLPYDASKWEPRDRLKLGK	838
QY	837	PLGRGAFQGVIEADAFGIDTAKTCKTYAVKVKLKEGATHSEHRALMSELKILIHIGHILNV	896
Db	839	PLGRGAFQGVIEADAFGIDTAKTCTRYAVKVKLKEGATHSEHRALMSELKILIHIGHILNV	898
QY	897	VNLLGACCKPBGPLMVIYVEFKFENLSYLRGKNEFVPYKSKCARPFGQGDYVAGELSYD	956
Db	899	VNLLGACCKPBGPLMVIYVEFKFENLSYLRKSKNEFVPYTKGARFPFGQGDYVAGALPYD	958
QY	957	LKRRLDSTSSQSSASSGFEVBEKSLSDVEEESAESELYKDFLTJLEHLI CYSFQYAKGMEF	1014
Db	959	LKRRLDSTSSQSSASSGFEVBEKSLSDVEEESAEEDLYKDFLTJLEHLI CYSFQYAKGMEF	1018
QY	1017	LASRKCJHRDIAARNILISEKNVYKICDFGLARDIYKODPYVRKGDARLPLKMAPEITF	1078
Db	1019	LASRKCJHRDIAARNIILISEKNVYKICDFGLARDIYKODPYVRKGDARLPLKMAPEITF	1078
QY	1077	DRVYTTOSDWSPGVLLMEIPSLCASPPGVKIDEEFCRRLKEGTRMAPYTTPEMNOT	1136
Db	1079	DRVYTTOSDWSPGVLLMEIPSLCASPPGVKIDEEFCRRLKEGTRMAPYTTPEMNOT	1138
QY	1137	MLDCMHEBPNORPSFSELVEHIGNLLOANAQODKQDYLVIEMSETLSMEEDSGSLPTSP	1196
Db	1139	MLDCMHEBPGRPFSELVEHIGNLLOANAQODKQDYLVIPISETLSMEEDSGSLPTSP	1198
QY	1197	VSCMEEBEYCDPKHYNDYTAGISHYLONSRRKSPVYKTYEBDPLPEBPYKVIYPPDSQOT	1256
Db	1199	VSCMEEBEYCDPKHYNDYTAGISYLONSRRKSPVYKTYEBDPLPEBPYKVIYPPDNOOT	1258
QY	1257	DSGNVLASEELKXTJEDNRKLSPSFGGAMPPSKSRBSVASSEGSNQTSGYOSGSHSDDTDTTV	1314
Db	1259	DSGNVLASEELKXTJEDNRKLSPSFGGAMVPKSKSRBSVASSEGSNQTSGYOSGSHSDDTDTTV	1318
QY	1317	YSSDEAGLLKXVDAVAHA-----DSGTTLRSPV 1345	
Db	1319	YSSDEAEILKLEIGVOTGSTAQILQDPSGTTLSPPV 1356	

RESULT 13
 US-10-090-183-2
 ; Sequence 2, Application US/10090183
 ; Publication No. US20030185802A1
 ; GENERAL INFORMATION:
 ; APPLICANT: The Scripps Research Institute
 ; APPLICANT: Ralph A. Reisfeld
 ; APPLICANT: Andrew G. Methammer
 ; APPLICANT: Rong Xiang
 ; TITLE OF INVENTION: DNA VACCINE AGAINST PROLIFERATING
 ; TITLE OF INVENTION: ENDOTHELIAL CELLS AND METHODS OF USE THEREOF
 ; FILE REFERENCE: TSRI-829.0
 ; CURRENT APPLICATION NUMBER: US/10/090,183
 ; NUMBER OF SEQ ID NOS: 6
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 1356
 ; TYPE: PRT
 ; ORGANISM: human
 ; US-10-090-183-2

Query Match 86.9%; Score 6124.5; DB 4; Length 1356;
 Best Local Similarity 85.7%; Pred. No. 0;
 Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESKALLAVALMFCVETRAASVGLTGDPLHPPKLSSTOKDILITLANTTLQITCRGORDLD 60
 DB 1 MOKSLVLAVALMFCVETRAASVGLTGDPLHPPKLSSTOKDILITLANTTLQITCRGORDLD 60
 QY 61 WMPNQRDSEBRLVTECGGDSIFCKTLTIPRVVNDTGAYKGSYRVDVIASTVYVV 120
 DB 61 WMPNQRDSEBRLVTECGGDSIFCKTLTIPRVVNDTGAYKGSYRVDVIASTVYVV 118
 QY 121 RYRSPFIAVSDDGCIYVITENKKTIVIPCRGSI.SNUNSLCARYPEKRPVDPGRIS 180
 DB 119 QYRSPFIAVSDDGCIYVITENKKTIVIPCRGSI.SNUNSLCARYPEKRPVDPGRIS 178
 QY 181 WDESGFTLPSYMI.SYAGWVCEAKINDETYSIMYIVVVGRIYDVLSPPHELSA 240
 DB 179 WDSKGFITPSIMISYAGWVCEAKINDETYSIMYIVVVGRIYDVLSPPHELSA 238
 QY 241 GEKVLNCTARTLNVGLDFTWSPSPSKSHKKIYVNRDVKPPGVAKMFLSTLTIESVT 300
 DB 239 GEKVLNCTARTLNVGLDFTWSPSPSKSHKKIYVNRDVKPPGVAKMFLSTLTIESVT 298
 QY 301 KSDGSEYTCVASSGSMIKRNTFFVHTYPTFAFGSKMSLYEATVGSQVRI.PVKYLSIP 360
 DB 299 RSDGSEYTCVASSGSMIKRNTFFVHTYPTFAFGSKMSLYEATVGSQVRI.PVKYLSIP 358
 QY 361 APDIKMYRNGRIEISNYTMI.VGDELTIMEVTERDAGNVYILTNPI.SMEKOSHMTSLVYN 420
 DB 359 PPEIKMYRNGRIEISNYTMI.VGDELTIMEVTERDAGNVYILTNPI.SMEKOSHMTSLVYN 418
 QY 421 VPPQIGEKALISPMDSYOGTMOITLCTVYANPPLHIIQWYQLEBAGSYRSGQ-----TS 476
 DB 419 VPPQIGEKALISPMDSYOGTMOITLCTVYALPPHIIMYQLEBAGNESQAVSTN 478
 QY 477 PLYCKEMHVRVEDPQGNKIEVTKNQYALIEGKNKTVSTLVIOANVSALYKCEAIKAKGR 536
 DB 479 PLYCKEMHVRVEDPQGNKIEVTKNQYALIEGKNKTVSTLVIOANVSALYKCEAIKAKGR 538
 QY 537 GERVISFVYIRPELTIVOPAAQPTBOESVSLCTDRNFEVLTMYKLSQATSVHMGES 596
 DB 539 GERVISFVYIRPELTIVOPAAQPTBOESVSLCTDRNFEVLTMYKLSQATSVHMGES 598
 QY 597 LTPVCKNDLALMKNLNGTMSNSTNDIL.IVAFONASLODGDYVCSAODKTKKRRHCLVYQ 656
 DB 599 PTPVCKNDLALMKNLNGTMSNSTNDIL.IVAFONASLODGDYVCSAODKTKKRRHCLVYQ 658
 QY 657 LILIERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITFKKNETLVEDSGIVLADG 716
 DB 659 LILIERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITFKKNETLVEDSGIVLADG 718

QY 717 NENLTI.RVRKEDGGLYTCQACNVLCARAEFTLFTIEGAQOEKTNLEVIILVNGAVIAMEF 776
 DB 719 NENLTI.RVRKEDGGLYTCQACNVLCARAEFTLFTIEGAQOEKTNLEVIILVNGAVIAMEF 778
 QY 777 WLLVIVLRTVVRANEGELKTGYLSTVMDPDELPLDERCERL.PYDASKMEFPRDRILKCK 836
 DB 779 WLLVIVLRTVVRANEGELKTGYLSTVMDPDELPLDERCERL.PYDASKMEFPRDRILKCK 838
 QY 837 PLGRGAFQGVIEADAFGIDKTAICTVAVNMLKEGATHEBHALLSELKILHIGHLNV 896
 DB 839 PLGRGAFQGVIEADAFGIDKTAICTVAVNMLKEGATHEBHALLSELKILHIGHLNV 898
 QY 897 VMLGACTKPGPLVWYVEFCRGNLSTLRGRNMFVYKSGARFROGXVYGLSTVD 956
 DB 899 VMLGACTKPGPLVWYVEFCRGNLSTLRGRNMFVYKSGARFROGXVYGLSTVD 958
 QY 957 LKRRLDSTSSQSSASGFEVEKSLSDVEEBASBELYKDLTLEHLICYSFOVAKGMEF 1016
 DB 959 LKRRLDSTSSQSSASGFEVEKSLSDVEEBASBELYKDLTLEHLICYSFOVAKGMEF 1018
 QY 1017 LASRRCIHRDLAARNIILSEKRVVYKICDPLGLARDIYKDPDYRKGDARLPLKMAPEITF 1076
 DB 1019 LASRRCIHRDLAARNIILSEKRVVYKICDPLGLARDIYKDPDYRKGDARLPLKMAPEITF 1078
 QY 1077 DRVYTIQSDVMSFGVLMWEIFSLGASPYGVYKIDBEFCRLKEGTRMRAPDYTTPEMYOT 1136
 DB 1079 DRVYTIQSDVMSFGVLMWEIFSLGASPYGVYKIDBEFCRLKEGTRMRAPDYTTPEMYOT 1138
 QY 1137 MLDCEHEDPNORPSFSELVEHLGNLLQANAOQGDXYIVLPWSETL.SMEEDSGLSLPTSP 1196
 DB 1139 MLDCEHEDPNORPSFSELVEHLGNLLQANAOQGDXYIVLPWSETL.SMEEDSGLSLPTSP 1198
 QY 1197 VSCMEEBEYCDPKFHYDNTAGISHTLQNSKRSRVSYSKTEPDITLLEPEVYVYIPDDSQ 1256
 DB 1199 VSCMEEBEYCDPKFHYDNTAGISHTLQNSKRSRVSYSKTEPDITLLEPEVYVYIPDDSQ 1258
 QY 1257 DSGWVLASEBELKTLDRKSLSPSGMMPSKRSRESVASGSGQSGYSGYSDDTDTTV 1316
 DB 1259 DSGWVLASEBELKTLDRKSLSPSGMMPSKRSRESVASGSGQSGYSGYSDDTDTTV 1318
 QY 1317 YSSDEAGLLKNVDAVHA-----DSGTTLRSPV 1345
 DB 1319 YSSDEAGLLKNVDAVHA-----DSGTTLRSPV 1356

RESULT 14
 US-10-394-322A-66
 ; Sequence 66, Application US/10394322A
 ; Publication No. US2003023291A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SUNESIS PHARMACEUTICALS, INC.
 ; APPLICANT: Prescott, John C.
 ; TITLE OF INVENTION: IDENTIFICATION OF KINASE INHIBITORS
 ; FILE REFERENCE: 39750-0006 US
 ; CURRENT APPLICATION NUMBER: US/10/394,322A
 ; CURRENT FILING DATE: 2003-03-20
 ; PRIOR APPLICATION NUMBER: US 60/366,892
 ; NUMBER OF SEQ ID NOS: 70
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 66
 ; LENGTH: 1356
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-394-322A-66

Query Match 86.9%; Score 6124.5; DB 4; Length 1356;
 Best Local Similarity 85.7%; Pred. No. 0;
 Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

QY 1 MESKALLAVALMFCVETRAASVGLTGDPLHPPKLSSTOKDILITLANTTLQITCRGORDLD 60
 DB 1 MOKSLVLAVALMFCVETRAASVGLTGDPLHPPKLSSTOKDILITLANTTLQITCRGORDLD 60

Db 1 MOSKYLALVALMVCETRAASVGLPSVSLDLPRLISIQKDILITIKANTTLQITCRGQRDL 60
Qy 61 WLMWNAQRDSEBRVLYTECGGDSIFCKTLTIPRVVNDTGAYKCSYRDVDIASTVYV 120
Db 61 WLMWNAQRDSEBRVLYTECGGDSIFCKTLTIPRVVNDTGAYKCSYRDVDIASTVYV 118
Qy 121 RDYSPPIASVSDOHGIYITENKNTVYIPCRGSI SNLWNSLCARYEKKRPVDDGNRIS 180
Db 119 QDYRSPPIASVSDOHGIYITENKNTVYIPCLGSI SNLWNSLCARYEKKRPVDDGNRIS 178
Qy 181 WDSKGFITPSYMSIAGWVFCFAKINDESIYIMYIVVVGRIYDVVLSHGIELSV 240
Db 179 WDSKGFITPSYMSIAGWVFCFAKINDESIYIMYIVVVGRIYDVVLSHGIELSV 238
Qy 241 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYNRDVKEPFGTAVAKMPLSTLTIESVT 300
Db 239 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYNRDVKEPFGTAVAKMPLSTLTIDVT 298
Qy 301 KSDGERTCVASSGMMIKRNTFVRVHTKRPFIAGSGKSLVEATVSGVRI PVKYLISYP 360
Db 299 RSDQGLYCAASSGIMTKKNSITFVYVHEKPFVAFSGSGMESLVEATVGERVRIIPAKYLGP 358
Qy 361 APDIKWYNGRPIESNTYIMVDELTIMEVTERDAGNTVLTINPISMEKSHWVSIYVN 420
Db 359 PEIKWYNGRPIESNTYIMVDELTIMEVTERDAGNTVLTINPISMEKSHWVSIYVN 418
Qy 421 VPPOIGERKALISPMDSYOGTMQTLCTVYANPPLHNIQWYQLEACSYRPGQ----TS 476
Db 419 VPPOIGERKALISPMDSYOGTMQTLCTVYANPPLHNIQWYQLEACSYRPGQ----TS 478
Qy 477 PYACEKWHVDEPQCGNKIEVTKNOYALIEGKNTVSLTVIQANVSAALYCEALINKRGR 536
Db 479 PYACEKWHVDEPQCGNKIEVTKNOYALIEGKNTVSLTVIQANVSAALYCEALINKRGR 538
Qy 537 GERVYSFVIVGPETITVPAOQPTQESVSLCTADRTPENLTMYKLGSAITSVHMGES 596
Db 539 GERVYSFVIVGPETITVPAOQPTQESVSLCTADRTPENLTMYKLGSAITSVHMGES 598
Qy 597 LTPVCKNLDALMKLNGTWFSNSTNDILIVAFONASLODQGVYCSAODKTKRKHCLVQ 656
Db 599 LTPVCKNLDALMKLNGTWFSNSTNDILIVAFONASLODQGVYCSAODKTKRKHCLVQ 658
Qy 657 LIILERMAPMITGNENOTTIGETIEVTCPASGNPHTITWPKDNEFLVEDSGIVLRDG 716
Db 659 LTVIERVAPITITGNENOTTIGESIEVSCTASGNPQIMWPKDNEFLVEDSGIVLRDG 718
Qy 717 NRNLTIRVRKEDGLYCCOACNVLCARAEFLTIFIEGAOKTNEVLIIWGTAVIANMF 776
Db 719 NRNLTIRVRKEDGLYCCOACNVLCARAEFLTIFIEGAOKTNEVLIIWGTAVIANMF 778
Qy 777 WLLVILVLRVYKRANEGELKTGYLSIWM DPDELPLDERCERLPYDASKMEFPDRDLKLG 836
Db 779 WLLVILVLRVYKRANEGELKTGYLSIWM DPDELPLDERCERLPYDASKMEFPDRDLKLG 838
Qy 837 PLGGAFCQVITEADAFGIDKTATCTVAVKMLKSGATSHSRALMSELKILIHIGHLNV 896
Db 839 PLGGAFCQVITEADAFGIDKTATCTVAVKMLKSGATSHSRALMSELKILIHIGHLNV 898
Qy 897 VNLGACRCPGAPLNVIVFCFKFGLSTYLSLKGNEFPYKSKGAPFOGQDGYGELSVD 956
Db 899 VNLGACRCPGAPLNVIVFCFKFGLSTYLSLKGNEFPYKSKGAPFOGQDGYGELSVD 958
Qy 957 LKRRLDITSSOSSASGFEVEKSLSDVEEESAESELYKDFLTLEHLICYSFOYAKGMEF 1016
Db 959 LKRRLDITSSOSSASGFEVEKSLSDVEEESAESELYKDFLTLEHLICYSFOYAKGMEF 1018
Qy 1017 LASRKCJHRDLAARNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMAPETIF 1076
Db 1019 LASRKCJHRDLAARNILISEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKMAPETIF 1078
Qy 1077 DRVYTIOSDVMSPGVLMEIFSLGASPYGVKIDEEFCRRLKEGTRMAPDYTTPEMYQT 1136
Db 1079 DRVYTIOSDVMSPGVLMEIFSLGASPYGVKIDEEFCRRLKEGTRMAPDYTTPEMYQT 1138

Qy 1137 MLDCHMDPNQRPSPSELVEHLGNLQANAOQDQKDYIVLPMSETLSMEBDSGLSP 1196
Db 1139 MLDCHMDPNQRPSPSELVEHLGNLQANAOQDQKDYIVLPMSETLSMEBDSGLSP 1198
Qy 1197 VSCMBEEVCDPKHYNTAGISHYLONSKRKSAPVYKTFEDIPLBEPVKVLPDDSQ 1256
Db 1199 VSCMBEEVCDPKHYNTAGISHYLONSKRKSAPVYKTFEDIPLBEPVKVLPDDSQ 1258
Qy 1257 DSGWVLAASELKTJEDNKLSPSGMMPSKRSRESVASEGNOTSGYOSGYHSDDTPTV 1316
Db 1259 DSGWVLAASELKTJEDNKLSPSGMMPSKRSRESVASEGNOTSGYOSGYHSDDTPTV 1318
Qy 1317 YSSDEAGLLKVVDAVHA-----DSGTLTLPSPV 1345
Db 1319 YSSDEAGLLKVVDAVHA-----DSGTLTLPSPV 1356

RESULT 15
US-10-440-464-129
; Sequence 129, Application US/10440464
; Publication No. US20040018528A1
; GENERAL INFORMATION:
; APPLICANT: DEPRIMO, SAMUEL
; APPLICANT: O'FARRELL, ANNE-MARIE
; APPLICANT: MORIMOTO, ALYSSA
; APPLICANT: SMOLICH, BEVERLY
; APPLICANT: MANNING, WILLIAM
; APPLICANT: WALTER, SARAH
; APPLICANT: CHERRINGTON, JULIE
; TITLE OF INVENTION: NOVEL BIOMARKERS OF TYROSINE KINASE INHIBITOR EXPOSURE
; FILE REFERENCE: 038602/1592
; CURRENT APPLICATION NUMBER: US/10/440,464
; PRIOR FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: 60/380,872
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/448,922
; PRIOR FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: 60/448,874
; NUMBER OF SEQ ID NOS: 185
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 129
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-440-464-129

Query Match 86.9%; Score 6124.5; DB 4; Length 1356;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

Qy 1 MESKALLAVALMVCETRAASVGLITGDFLHPKLSITQKIDILITILANTTLQITCRGQRDL 60
Db 1 MOSKYLALVALMVCETRAASVGLPSVSLDLPRLISIQKDILITIKANTTLQITCRGQRDL 60
Qy 61 WLMWNAQRDSEBRVLYTECGGDSIFCKTLTIPRVVNDTGAYKCSYRDVDIASTVYV 120
Db 61 WLMWNAQRDSEBRVLYTECGGDSIFCKTLTIPRVVNDTGAYKCSYRDVDIASTVYV 118
Qy 121 RDYSPPIASVSDOHGIYITENKNTVYIPCRGSI SNLWNSLCARYEKKRPVDDGNRIS 180
Db 119 QDYRSPPIASVSDOHGIYITENKNTVYIPCLGSI SNLWNSLCARYEKKRPVDDGNRIS 178
Qy 181 WDSKGFITPSYMSIAGWVFCFAKINDESIYIMYIVVVGRIYDVVLSHGIELSV 240
Db 179 WDSKGFITPSYMSIAGWVFCFAKINDESIYIMYIVVVGRIYDVVLSHGIELSV 238
Qy 241 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYNRDVKEPFGTAVAKMPLSTLTIESVT 300
Db 239 GEKVLNCTARTELNVGLDFTWSPSPSKSHKKIYNRDVKEPFGTAVAKMPLSTLTIDVT 298

Qy 301 KSDQGEYTCVASSGRMIKRNRTFVRVHTKPFIAFGSGMKSLVEATVGSQVRIPVKLYSP 360
 Db 299 RSDQGLYTCASSGGLMTKKNSTFVRVHEKPFVAFSGMSLVLEATGGERVRIIPAKLGYP 358
 Qy 361 APDIKRYRNGRPRESNYTMI VGEDELTIMEYTERDAGNTVYILTNPI SMEKOSHMSLVN 420
 Db 359 PEIKRYKNGIPLSESHHTIKAGHVTIMESEBDTGNVTYIILTNPISEKOSHMSLVN 418
 Qy 421 VPPQIGERKALISPMDSYQGTMTCTCTYANPPLHIOMWOLEEACSYRPGQ---TS 476
 Db 419 VPPQIGERKSLISPVDSYQGTMTCTCTYALPPEPHIMWOLEEACANPSQAVSTN 478
 Qy 477 PYACKEMRAVEDFOGKNKLEVTNQYALIEGKNKTVSTLVIQANVSALYKCEAIKAGR 536
 Db 479 PYCEEMRSEVEDFOGKNKLEVNKNQFALIEGKNKTVSTLVIQANVSALYKCEAVNAGR 538
 Qy 537 GERVISFHVIRGPEITVQPAQPTBOESVSLCTADRNTFENLTWYKLGSOATSVHMGES 596
 Db 539 GERVISFHVIRGPEITLQPDMPTEQESVSLWCTADRSTFENLTWYKLGAPQPLPIHVGL 598
 Qy 597 LTPVCNLDALMKNGTMSNSTNDILIAFQNASLODGDYVCSAODKKTKRHCLVQ 656
 Db 599 LTPVCNLDLTMKNATMPSNSTNDILIMELKNASLODGDYVCLAQDRKTKRHCVARQ 658
 Qy 657 LILIERMAMITGNLENQTTTIGETIEVCPASGNPTPHITWPKONETLVEDSGIYLRDG 716
 Db 659 LTVLERVAPITGNLENQTTISIGESIEVCTASGNPPQIMFKNONETLVEDSGIYLRDG 718
 Qy 717 NENLTIRRVKEDGELYTCQACNVLCAPAEFTLFIIEGAQEKTNLEVIILVGTAVIAMPF 776
 Db 719 NENLTIRRVKEDGELYTCQACSVLCAYEAFFIIEGAQEKTNLEIILVGTAVIAMPF 778
 Qy 777 WLLVIYLRVYRANEGELKTGYLSIVMDPDLPLDERCERLPYDASKWEPFRDLKLGK 836
 Db 779 WLLVIYLRVYRANEGELKTGYLSIVMDPDLPLDERCERLPYDASKWEPFRDLKLGK 838
 Qy 837 PLGRGAFQGVLEADAFGIDKTATCTVAVKMLKEGATSEHRALMSELKILIHIGHLNV 896
 Db 839 PLGRGAFQGVLEADAFGIDKTATCTVAVKMLKEGATSEHRALMSELKILIHIGHLNV 898
 Qy 897 VNLGACTKPGGPLMVIYEFCKFGNLSTYLRGKNEFVVPYKSGARFRQGXDVYSELVD 956
 Db 899 VNLGACTKPGGPLMVIYEFCKFGNLSTYLRGKNEFVVPYKSGARFRQGXDVYSELVD 958
 Qy 957 LKRLDSTSSQSSASGFEVEKSLSDVEEBAESELVYDFTLEHLICYSFOVAKGMEF 1016
 Db 959 LKRLDSTSSQSSASGFEVEKSLSDVEEBAESELVYDFTLEHLICYSFOVAKGMEF 1018
 Qy 1017 LASRKCIHRDLAARNIILSEKNVVKICDFGLARDIYKDPDYVRKGDARLPKMAPEITF 1076
 Db 1019 LASRKCIHRDLAARNIILSEKNVVKICDFGLARDIYKDPDYVRKGDARLPKMAPEITF 1078
 Qy 1077 DRVYTIQSDVMSFGVLLWEIFSLGASPYPGVKIDEFCRLKEGTRMAPDYTTPEMYQT 1136
 Db 1079 DRVYTIQSDVMSFGVLLWEIFSLGASPYPGVKIDEFCRLKEGTRMAPDYTTPEMYQT 1138
 Qy 1137 MLDCHEDBNQRPSESELVEHGNLQANAODGKDIYLPMSFTLSMEEDGSLPTSP 1196
 Db 1139 MLDCHGEBPSQRPSESELVEHGNLQANAODGKDIYLPMSFTLSMEEDGSLPTSP 1198
 Qy 1197 VSCMEEBEVCDFPHYDNTAGISHTLONSKRSPVSVKTFEDIPLREPEVAVIPDDSQT 1256
 Db 1199 VSCMEEBEVCDFPHYDNTAGISHTLONSKRSPVSVKTFEDIPLREPEVAVIPDDSQT 1258
 Qy 1257 DSGMYLASBELKTLLEDNRKLSPSPGGMPSKSGRESVASGNSQTSYGSHSDDTDTTV 1316
 Db 1259 DSGMYLASBELKTLLEDNRKLSPSPGGMPSKSGRESVASGNSQTSYGSHSDDTDTTV 1318
 Qy 1317 YSSDEAGLLKMWDAVHA-----DSGTLRSPV 1345
 Db 1319 YSSDEAGLLKMWDAVHA-----DSGTLRSPV 1356

Search completed: January 30, 2006, 12:03:19
 Job time : 126 secs

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OM protein - protein search, using sw model

Run on: January 30, 2006, 11:52:41 ; Search time 34 Seconds
(without alignments)
426.385 Million cell updates/sec

Title: US-10-090-183-6
Perfect score: 7046
Sequence: 1 MESKALLAVLWLFVETRAA.....KMYDAVHADSGTLRSPV 1345

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 75621 seqs, 10829074 residues

Total number of hits satisfying chosen parameters: 75621

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA_New:*

1:	/cgn2_6/ptodata/1/pubppaa/US08_NEW_PUB pep:*
2:	/cgn2_6/ptodata/1/pubppaa/US06_NEW_PUB pep:*
3:	/cgn2_6/ptodata/1/pubppaa/US07_NEW_PUB pep:*
4:	/cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB pep:*
5:	/cgn2_6/ptodata/1/pubppaa/US09_NEW_PUB pep:*
6:	/cgn2_6/ptodata/1/pubppaa/US10_NEW_PUB pep:*
7:	/cgn2_6/ptodata/1/pubppaa/US11_NEW_PUB pep:*
8:	/cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6124.5	86.9	1356	6	US-10-995-561-904 Sequence 904, App
2	6124.5	86.9	1356	6	US-10-995-561-906 Sequence 906, App
3	5855.5	83.1	1306	6	US-10-995-561-905 Sequence 905, App
4	3345	46.1	767	7	US-11-043-693-2 Sequence 2, Appl
5	3240	46.0	764	7	US-11-104-110-8 Sequence 8, Appl
6	2879.5	40.9	592	7	US-11-043-693-34 Sequence 9, Appl
7	2733.5	38.8	1368	7	US-11-109-156-23 Sequence 34, Appl
8	2694.5	38.2	1338	6	US-10-821-234-1522 Sequence 1622, Ap
9	2692.5	38.2	1338	6	US-11-043-693-33 Sequence 33, Appl
10	2691.5	38.2	1363	7	US-11-043-693-32 Sequence 7, Appl
11	2653	37.7	1363	7	US-11-043-693-32 Sequence 10, Appl
12	1600	22.7	316	7	US-11-043-693-3 Sequence 23, Appl
13	1186.5	16.8	777	7	US-11-092-168-10 Sequence 1587, Ap
14	1162	14.9	758	6	US-10-995-561-829 Sequence 829, App
15	1046.5	14.5	972	6	US-10-821-234-1587 Sequence 1587, Ap
16	990.5	14.1	433	7	US-11-092-168-6 Sequence 6, Appl
17	891.5	12.7	433	7	US-11-092-168-7 Sequence 7, Appl
18	822.5	11.7	383	7	US-11-092-168-8 Sequence 8, Appl
19	807	11.5	411	7	US-11-092-168-9 Sequence 75, Appl
20	598.5	8.5	258	6	US-10-995-561-538 Sequence 538, App
21	559	7.9	1367	7	US-11-113-202-18 Sequence 18, Appl
22	557.5	7.9	1368	6	US-10-995-561-539 Sequence 539, App
23	550.5	7.8	458	7	US-11-016-503-16 Sequence 16, Appl

26	550.5	7.8	458	7	US-11-089-803-6 Sequence 6, Appl
27	550.5	7.8	458	7	US-11-149-738-2 Sequence 2, Appl
28	550.5	7.8	458	7	US-11-155-268-2 Sequence 2, Appl
29	544.5	7.7	458	7	US-11-016-503-12 Sequence 12, Appl
30	544.5	7.7	458	7	US-11-089-803-2 Sequence 2, Appl
31	543.5	7.7	430	7	US-11-016-503-17 Sequence 17, Appl
32	521.5	7.4	240	7	US-11-089-803-23 Sequence 23, Appl
33	509.5	7.2	1390	6	US-10-957-351-1 Sequence 50, Appl
34	484	6.9	97	7	US-11-043-693-50 Sequence 8, Appl
35	477	6.8	943	7	US-11-113-202-8 Sequence 6, Appl
36	477	6.8	1210	7	US-11-113-202-6 Sequence 1, Appl
37	477	6.8	1210	7	US-11-145-566-1 Sequence 10, Appl
38	473	6.7	567	7	US-11-016-503-10 Sequence 1, Appl
39	472	6.7	567	7	US-11-016-503-2 Sequence 11, Appl
40	469	6.7	293	7	US-11-092-168-11 Sequence 4, Appl
41	468	6.6	557	7	US-11-016-503-4 Sequence 21, Appl
42	466.5	6.6	450	7	US-11-109-156-21 Sequence 5, Appl
43	466.5	6.6	450	7	US-11-230-995-5 Sequence 59, Appl
44	450	6.4	983	7	US-11-113-424-59 Sequence 395, App
45	442.5	6.3	987	6	US-10-949-720-395

ALIGNMENTS

RESULT 1
US-10-995-561-904
Sequence 904, Application US/10995561
Publication No. US20050272054A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
TITLE OF INVENTION: DETECTION AND USES THEREOF
FILE REFERENCE: CL001559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 904
LENGTH: 1356
TYPE: PRP
ORGANISM: Homo sapiens
US-10-995-561-904

Query Match 86.9%; Score 6124.5; DB 6; Length 1356;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

QY	1	MESKALLAVLWLFVETRAASVGLTGDFLHPKLSSTOKDILTLTANTTLOINCRGORDD	60
DB	1	MOSKVLAVLWLFVETRAASVGLTSLDPLSLIOKDLITKANITLQICRGORDD	60
QY	61	WLPNABDSERVLVTECGGDSIFCKTLTPRVVNDTGAYKCSYRDVDIASTVYVV	120
DB	61	WLPNNGSGSERVAVTEG--SDGLFCKTLTPKVIKNDTGAYKCFYETDASVYVV	118
QY	121	RDYRSPFIASVSDGIVYITENKKYVTPKGSISUNLNSLCARYPKRPVPGNRIS	180
DB	119	QDYRSPFIASVSDGIVYITENKKYVTPKGSISUNLNSLCARYPKRPVPGNRIS	178
QY	181	WDSEIGFLPSYMSIYAGVFECAKINDETOSINVIYVVGRYDYDITSPHEIISA	240
DB	179	WDSKGFITPSYMSIYAGVFECAKINDETOSINVIYVVGRIYDYVLSHGLEISV	238
QY	241	GEKLVNCTARTLNVGLDFTWSPSPSKSHKKIVNRDVKPPGTAVAKFSTLTIESVT	300
DB	239	GEKLVNCTARTLNVGLDFTWSPSPSKSHKKIVNRDVKPPGTAVAKFSTLTIDVYT	298
QY	301	KSDQSEYTCVASSGGMIRKRTFVAIVHTKPFIAFGSKSLVEAVVGSQARIPIVYLSYP	360
DB	299	RSDQSLYTCVASSGGMIRKRTFVAIVHTKPFIAFGSKSLVEAVVGSQARIPIVYLSYP	358

361 APDIKMYRNGRPIESNTYMIWDELTIMEYTERDAGNYTILTNPISEKOSHMSVSVN 420
359 PPEIKMYKNGIPILESNHTIKAGHVLTIMEVSEBRTGNVTILTNPISEKOSHMSVSVN 418
421 VPPQIGKALISPMDSYQYGTQTLCTVYANPPIHHIOWWQLEACSTRPGO---TS 476
419 VPPQIGKALISPMDSYQYGTQTLCTVYALPPPHIHHWQLEACSTRPGOAVSVTN 478
477 PYACKERHVEDPFGGKKEIVTKNOYALIEGKNTVSTLVIQAANVSALYKCEALINKAGR 536
479 PYPCERMSVEDPFGGKKEIVTKNOYALIEGKNTVSTLVIQAANVSALYKCEALINKAGR 538
537 GERVISFHVIRGPEITVQPAAPTEQESVSLCTADRNTFENLTWYKLGSAQTSVHMEGS 596
539 GERVISFHVIRGPEITVQPAAPTEQESVSLCTADRNTFENLTWYKLGSAQTSVHMEGS 598
597 LTPYCKNLDAIMKUNGTFMSNSTNDILIVAFONASLQOQGYVCLAQDRKTKRHCVRQ 656
599 PTPYCKNLDAIMKUNGTFMSNSTNDILIVAFONASLQOQGYVCLAQDRKTKRHCVRQ 658
657 LIIERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITWPKDNETLVEDSGIVLRDG 716
659 LTVIERVAPITLGNLENQTTISGISIEVSCASGNPPQIMPKDNETLVEDSGIVLRDG 718
717 NRNLTIIRVRKEDGGLTYCOACNVLCGARAETLPIIEGAOEXTNLEVIILVGTAVIAMFF 776
719 NRNLTIIRVRKEDGGLTYCOACNVLCGARAETLPIIEGAOEXTNLEVIILVGTAVIAMFF 778
777 WLLVIVLRTVKRANEGELKTGYLSIWMDBELPLDERCERLPYDASKMEFPDRDLKLGK 836
779 WLLVIVLRTVKRANEGELKTGYLSIWMDBELPLDERCERLPYDASKMEFPDRDLKLGK 838
837 PLRGAFQGOVIEADAFGIDTATCTKTVAVKMLKEGATSEHRALMSELKILIHGHILNV 896
839 PLRGAFQGOVIEADAFGIDTATCTKTVAVKMLKEGATSEHRALMSELKILIHGHILNV 898
897 VNLGACATCPGPGPLMVIYEFCKFGNLSTYLGKRNEMPIYKSKARFPQGOYVGLSVD 956
899 VNLGACATCPGPGPLMVIYEFCKFGNLSTYLGKRNEMPIYKSKARFPQGOYVGLSVD 958
957 LKRLDSTTSOSSASSGFVEEKSLSVDEEBEASBELKDFLTLEHLCYSFOYAKGMEF 1016
959 LKRLDSTTSOSSASSGFVEEKSLSVDEEBEASBELKDFLTLEHLCYSFOYAKGMEF 1018
1017 LASRKHCHRDLAARNILSEKNVYKICDFGLARDIYKDPDYVRKGDARLPLKMAAPETIF 1076
1019 LASRKHCHRDLAARNILSEKNVYKICDFGLARDIYKDPDYVRKGDARLPLKMAAPETIF 1078
1077 DRVYTIQSDVMSFGVLMELISLGLASPYPGYKIDEEFCRRLKEGTRMAAPDYTTPEMYQT 1136
1079 DRVYTIQSDVMSFGVLMELISLGLASPYPGYKIDEEFCRRLKEGTRMAAPDYTTPEMYQT 1138
1137 MLDCHHEBPORPSESELVEHGNLLOANNAOQGDYVLEMSFTLISEEDSGLSLTPSP 1196
1139 MLDCHHEBPORPSESELVEHGNLLOANNAOQGDYVLEMSFTLISEEDSGLSLTPSP 1198
1197 VSCMEBEVCDPKRHYDNTAGISHYLONSKRKSRPVSKTFEDIPLBEEPVKVIIPDDSQT 1256
1199 VSCMEBEVCDPKRHYDNTAGISHYLONSKRKSRPVSKTFEDIPLBEEPVKVIIPDDSQT 1258
1257 DSGNVLASEELKTIEDRNLSPSFGGMMPSKSRBSVASEGSNQTSYGYSHTDITDTTV 1316
1259 DSGNVLASEELKTIEDRNLSPSFGGMMPSKSRBSVASEGSNQTSYGYSHTDITDTTV 1318
1317 YSDEAGLLKMWDAVHA-----DSGTTLSPPV 1345
1319 YSDEAGLLKMWDAVHA-----DSGTTLSPPV 1356

RESULT 2
US-10-995-561-906
; Sequence 906, Application US/10995561
; Publication No. US20050272054A1

GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: C0001559
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 906
; LENGTH: 1356
; TYPE: PRN
; ORGANISM: Homo sapiens
US-10-995-561-906

Query Match 86.9%; Score 6124.5; DB 6; Length 1356;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1164; Conservative 72; Mismatches 107; Indels 15; Gaps 3;

1 MESKALALVAMLMFCVETRAASVGLTGDPLHPKLTQKIDITLITANTTLQITCRGQRDL 60
1 MOSKVLALVAMLMFCVETRAASVGLTGDPLHPKLTQKIDITLITANTTLQITCRGQRDL 60
61 WLMFNAQRDESERVLVTECGGDSIFCKTLTTPRVGNDTGAYKCYRVDVIASTVYV 120
61 WLMFNNQSGSEQRVEVTEC--SDGLFCKTLTTPRVIGNDTGAYKCFYRETDLASVYV 118
121 RDVSPFIASVDQHGIVYITENKNTVPIPCRSISNLNWSLCARPERKFPVDGNIS 180
119 QDRSPFIASVDQHGIVYITENKNTVPIPCRSISNLNWSLCARPERKFPVDGNIS 178
181 WDSKGGTISYMSIYAGWYFCEAKINDETYOSIMYIVVVGRIYVILISPPEHIELSA 240
179 WDSKGGTISYMSIYAGWYFCEAKINDETYOSIMYIVVVGRIYVILISPPEHIELSA 238
241 GEKVLNCTARTEINVLGDLTWSPPSKSHHKKVNRDVKRPPGTVAMPLSTLTIESVT 300
239 GEKVLNCTARTEINVLGDLTWSPPSKSHHKKVNRDVKRPPGTVAMPLSTLTIESVT 298
301 KSDQGEYTCVASSGRMKRRRTFVRVHTKPIAFGSGMKSLVEATVGSQVAPYKYSYP 360
299 KSDQGEYTCVASSGRMKRRRTFVRVHTKPIAFGSGMKSLVEATVGSQVAPYKYSYP 358
361 APDIKMYRNGRPIESNTYMIWDELTIMEYTERDAGNYTILTNPISEKOSHMSVSVN 420
359 PPEIKMYKNGIPILESNHTIKAGHVLTIMEVSEBRTGNVTILTNPISEKOSHMSVSVN 418
421 VPPQIGKALISPMDSYQYGTQTLCTVYANPPIHHIOWWQLEACSTRPGO---TS 476
419 VPPQIGKALISPMDSYQYGTQTLCTVYALPPPHIHHWQLEACSTRPGOAVSVTN 478
477 PYACKERHVEDPFGGKKEIVTKNOYALIEGKNTVSTLVIQAANVSALYKCEALINKAGR 536
479 PYACKERHVEDPFGGKKEIVTKNOYALIEGKNTVSTLVIQAANVSALYKCEALINKAGR 538
537 GERVISFHVIRGPEITVQPAAPTEQESVSLCTADRNTFENLTWYKLGSAQTSVHMEGS 596
539 GERVISFHVIRGPEITVQPAAPTEQESVSLCTADRNTFENLTWYKLGSAQTSVHMEGS 598
597 LTPYCKNLDAIMKUNGTFMSNSTNDILIVAFONASLQOQGYVCLAQDRKTKRHCVRQ 656
599 LTPYCKNLDAIMKUNGTFMSNSTNDILIVAFONASLQOQGYVCLAQDRKTKRHCVRQ 658
657 LIIERMAPMITGNLENQTTIGETIEVTCPASGNPTPHITWPKDNETLVEDSGIVLRDG 716
659 LTVIERVAPITLGNLENQTTISGISIEVSCASGNPPQIMPKDNETLVEDSGIVLRDG 718
717 NRNLTIIRVRKEDGGLTYCOACNVLCGARAETLPIIEGAOEXTNLEVIILVGTAVIAMFF 776
719 NRNLTIIRVRKEDGGLTYCOACNVLCGARAETLPIIEGAOEXTNLEVIILVGTAVIAMFF 778
777 WLLVIVLRTVKRANEGELKTGYLSIWMDBELPLDERCERLPYDASKMEFPDRDLKLGK 836

Db 779 WLLVLLILRTVKKANGELKTGYLSIVMPDELPLEBHCERLPYDASKMEFPDRDLKGR 838
Qy 837 PLGRGAFQVIEADAGIDKTATCTVAVAVKMLKEGATSEHRALMSBLKLIHIGHLNV 896
Db 839 PLGRGAFQVIEADAGIDKTATCTVAVAVKMLKEGATSEHRALMSBLKLIHIGHLNV 898
Qy 897 VNLGACTPGGGLMVIIVEFCCKFGLNLTSLRGKNEFVYPYKSGARFROGKDYVGEISVD 956
Db 899 VNLGACTPGGGLMVIIVEFCCKFGLNLTSLRGKNEFVYPYKSGARFROGKDYVGEISVD 958
Qy 957 LKRLDSTISSQSSASSGFVEEKSLSDVBEESAELKYDFLEHLICYSFOVAKGMEF 1016
Db 959 LKRLDSTISSQSSASSGFVEEKSLSDVBEESAELKYDFLEHLICYSFOVAKGMEF 1018
Qy 1017 LASRKCIRHDLAARNILSEKNVVKICDFGLARDIKDPDYVRKGDARLPKMMAPETIF 1076
Db 1019 LASRKCIRHDLAARNILSEKNVVKICDFGLARDIKDPDYVRKGDARLPKMMAPETIF 1078
Qy 1077 DRVYTIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRMAPDYTPPEMYOT 1136
Db 1079 DRVYTIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRMAPDYTPPEMYOT 1138
Qy 1137 MLDCHHEDPNORPSESELVEHLGNLLOANAODGDYIVLPMSETLSMEEDSGLSLTPSP 1196
Db 1139 MLDCHHEDPNORPSESELVEHLGNLLOANAODGDYIVLPMSETLSMEEDSGLSLTPSP 1198
Qy 1197 VSCMBEEVCDPKFHYDNTAGISHTYLONSKRKSRPVSVTFEDIPLEBEVAVIPDDSQT 1256
Db 1199 VSCMBEEVCDPKFHYDNTAGISHTYLONSKRKSRPVSVTFEDIPLEBEVAVIPDDSQT 1258
Qy 1257 DSGMWLASBELKTLBEDRNKLSPSFGGMPKSRRESVASEGNSQSGYSGHSDDTDTV 1316
Db 1259 DSGMWLASBELKTLBEDRNKLSPSFGGMPKSRRESVASEGNSQSGYSGHSDDTDTV 1318
Qy 1317 YSSDEAGLLKMDAVHA-----DSGTLRKSPV 1345
Db 1319 YSSDEAGLLKLEIGVGTGSTAQILQPDGTLSSPPV 1356

RESULT 3
US-10-995-561-905
; Sequence 905, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CLO01559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FacetsQ for Windows Version 4.0
; SEQ ID NO 905
; LENGTH: 1306
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-905

Query Match 83.1%; Score 5855.5; DB 6; Length 1306;
Best Local Similarity 82.2%; Pred. No. 0;
Matches 116; Conservative 71; Mismatches 106; Indels 65; Gaps 4;

Qy 1 MESKALLAVLMFCVETRAASVGLTGLHPKLSYQDILITLANTLTOTTCGORDLD 60
Db 1 MOSKVLAVLWMLCVETRAASVGLTGLHPKLSYQDILITLANTLTOTTCGORDLD 60
Qy 61 WLMFPAQDSEERVLVTECGGDSIFCKTLTIPRVVNDTGAVKSYSDVPIASVYVYV 120
Db 61 WLMFPAQDSEERVLVTECGGDSIFCKTLTIPRVVNDTGAVKSYSDVPIASVYVYV 118
Qy 121 RDIYSPFIASVSDQHGIIVITENKNTVYIPCRGISNLNWSLCARYPEKPFVDDGRIS 180

Db 119 ODYRSPFIASVSDQHGIIVITENKNTVYIPCRGISNLNWSLCARYPEKPFVDDGRIS 178
Qy 181 MDSGFTLPSYMIISAGVAFCEAKINDETYSIMITVYVGYRIYDVILSPHEIELSA 240
Db 179 MDSGFTLPSYMIISAGVAFCEAKINDETYSIMITVYVGYRIYDVILSPHEIELSA 238
Qy 241 GERVLNCTARTELNVGLPFTWSPPSKSHKKIVRDVYKPFPGTAAKMLSTLIEST 300
Db 239 GERVLNCTARTELNVGLPFTWSPPSKSHKKIVRDVYKPFPGTAAKMLSTLIEST 298
Qy 301 KSDQGEYTVASSGGMINKNRITFVRVHTKPIAFSGSMKSLVEATVGSQVRIPVKI,SY 360
Db 299 RSDQGLYTCASSGLMTKKNSTFVRVHEKPFVAFSGSMKSLVEATVGERVRIIPAKLIGP 358
Qy 361 ABDIKYRGRPIESYTMIVDELTIVETRDAGNTVYIITNPI,SMKOSHMSLVYN 420
Db 359 PEIKMYKNGIPLESNHTIKAGHVLITMEVSRDGNNTYIITNPI,SKESHVSVLVY 418
Qy 421 VPPQIGKALISPMDSYOGTMQTLTCTVYANPPLHIOWMQLEBACSYRPGQ----TS 476
Db 419 VPPQIGKALISPMDSYOGTMQTLTCTVYANPPLHIOWMQLEBACSYRPGQ----TS 478
Qy 477 PYACKEMRVEDPFOGANKIEVTKNQYALIEGKNTVSTLVIOANVSALYKCEAIKAGR 536
Db 479 PYACKEMRVEDPFOGANKIEVTKNQYALIEGKNTVSTLVIOANVSALYKCEAIKAGR 538
Qy 537 GERVISFHYTRGPETITVOPAOPTOEVSYLCTADRNTFENLTYKLGSOATSVHGES 596
Db 539 GERVISFHYTRGPETITVOPAOPTOEVSYLCTADRNTFENLTYKLGSOATSVHGES 598
Qy 597 LTPVCKNDLAKLNGTMFSNSTNDILTYAPONASLODGDVYVCSAODPKTKRCHLVNQ 656
Db 599 LTPVCKNDLAKLNGTMFSNSTNDILTYAPONASLODGDVYVCSAODPKTKRCHLVNQ 658
Qy 657 LILIERMAPITGNLENQTTIGETIEVYCPASGNPTPIITWFKONETLVEDSGI,VRDQ 716
Db 659 LILIERMAPITGNLENQTTIGETIEVYCPASGNPTPIITWFKONETLVEDSGI,VRDQ 718
Qy 717 NRNLTIRVRKEDGGLYTQACNVLCARAEFLTIEGAQEKTNLEVIITLVGTAVIAMEF 776
Db 719 NRNLTIRVRKEDGGLYTQACNVLCARAEFLTIEGAQEKTNLEVIITLVGTAVIAMEF 778
Qy 777 WLLVITV,RTVYRAAGEKLTGYLSIWMDBELPLDEBCEBRLPYASMEFPDRDLKXG 836
Db 779 WLLVITV,RTVYRAAGEKLTGYLSIWMDBELPLDEBCEBRLPYASMEFPDRDLKXG 838
Qy 837 PLGRGAFQVIEADAGIDKTATCTVAVAVKMLKEGATSEHRALMSBLKLIHIGHLNV 896
Db 839 PLGRGAFQVIEADAGIDKTATCTVAVAVKMLKEGATSEHRALMSBLKLIHIGHLNV 898
Qy 897 VNLGACTPGGGLMVIIVEFCCKFGLNLTSLRGKNEFVYPYKSGARFROGKDYVGEISVD 956
Db 899 VNLGACTPGGGLMVIIVEFCCKFGLNLTSLRGKNEFVYPYKSGARFROGKDYVGEISVD 958
Qy 957 LKRLDSTISSQSSASSGFVEEKSLSDVBEESAELKYDFLEHLICYSFOVAKGMEF 1016
Db 940 LKRLDSTISSQSSASSGFVEEKSLSDVBEESAELKYDFLEHLICYSFOVAKGMEF 968
Qy 1017 LASRKCIRHDLAARNILSEKNVVKICDFGLARDIKDPDYVRKGDARLPKMMAPETIF 1076
Db 969 LASRKCIRHDLAARNILSEKNVVKICDFGLARDIKDPDYVRKGDARLPKMMAPETIF 1028
Qy 1077 DRVYTIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRMAPDYTPPEMYOT 1136
Db 1029 DRVYTIQSDVMSFGVLLMEIFSLGASPYPGVKIDEEFCRLKEGTRMAPDYTPPEMYOT 1088
Qy 1137 MLDCHHEDPNORPSESELVEHLGNLLOANAODGDYIVLPMSETLSMEEDSGLSLTPSP 1196
Db 1089 MLDCHHEDPNORPSESELVEHLGNLLOANAODGDYIVLPMSETLSMEEDSGLSLTPSP 1148
Qy 1197 VSCMBEEVCDPKFHYDNTAGISHTYLONSKRKSRPVSVTFEDIPLEBEVAVIPDDSQT 1256

Db 1149 VSCMBEERVCPRHYDNTAGISQYLQNSKRSRVSUKTEFIDPLEPEVKVLPDDNQ 1208
Qy 1257 DSGWVLAASELKTLEDNRKLSPPSGGMPSPKSRRESVASEGNSQSGYSGYHSDPTDTTV 1316
Db 1209 DSGWVLAASELKTLEDNRKLSPPSGGMPSPKSRRESVASEGNSQSGYSGYHSDPTDTTV 1268
Qy 1317 YSSDEAGLLKRVDAVNA-----DSGTTLSRPV 1345
Db 1269 YSSEAEALLKLEIGVGTGTAQILQPDSTGTTLSPPV 1306

RESULT 4
US-11-043-693-2
; Sequence 2, Application US/11043693
; Publication No. US20050281831A1
; GENERAL INFORMATION:
; APPLICANT: Davis-Smyth, Terri L.
; APPLICANT: Chen, Helen H.
; APPLICANT: Presta, Leonard
; APPLICANT: Ferreira, Napoleone
; TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESS: Dorsey & Whitney LLP
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/043.693
; FILING DATE: 26-Jan-2005
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/10/105.901
; FILING DATE: 20-Mar-2002
; APPLICATION NUMBER: 09/348.886
; FILING DATE: 01-JUL-1999
; APPLICATION NUMBER: US 08/643.839
; FILING DATE: 07-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard F. Treacartin
; REGISTRATION NUMBER: 31,801
; REFERENCE/DOCKET NUMBER: A-63291-3/RFT/NBC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 767 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-11-043-693-2

Query Match 46.1%; Score 3245; DB 7; Length 767;
Best Local Similarity 79.9%; Pred. No. 9.5e-213; Indels 6; Gaps 2;
Matches 612; Conservative 56; Mismatches 92;

Qy 1 MESKALLAVALMFCVETRAASVGLTGDFLHPKLSSTQDILITLANTTLQITCRGORDLD 60
Db 1 MESKYLAVLWMLCVETRAASVGLTSLDLPRLSIQDILITKANTTLQITCRGORDLD 60
Qy 61 WLMFPAQDSERVLVTECGGDSIFCKTLTIPRVGNDTGAAYKCSYDVDAIATVYVYV 120

Db 61 WLMFPAQDSERVLVTECGGDSIFCKTLTIPRVGNDTGAAYKCSYDVDAIATVYVYV 118
Qy 121 RDYRPFIAVSQDQGVITTEENKNTVLPGRGSIENLNVSLCARPERKPFVDGNRIS 180
Db 119 QDYSFPIASVSDQGVITTEENKNTVLPGLSINLNVSLCARPERKPFVDGNRIS 178
Qy 181 WDSIEGFTLPSYMTSYGAWFCEAKINDETYQSMYVVYVYVYVYVYVYVYVYVYVYV 240
Db 179 WDSKKGFTLPSYMTSYGAWFCEAKINDESYQSMYVVYVYVYVYVYVYVYVYVYVYV 238
Qy 241 GEKVLNCTARTLNAGLDFTWHSPPSKSHHKIYNRDPVYKPFPGTVAKMFLSTLTIESVT 300
Db 239 GEKVLNCTARTLNAGLDFTWHSPPSKSHHKIYNRDLTKQSGSEKKFLSTLTIDGVT 298
Qy 301 KSDGEYTCVASSGRMTKRNRTFVRVHTKPFIAFGSKSLVEATVSGQVRIPVKYLSP 360
Db 299 RSDGGLYTCAASSGLMTKRNSTFVRVHEKPFVAGSGMESLVEATVBERVRIPAKYLGP 358
Qy 361 APDIKMYRNGRPIESNTYVGEDELIMEYTERDAGNYTVILNPISEKOSHVSGLVN 420
Db 359 PPEIKMYKNGIPIESNHTIKAGVLTIMEYSEBDTGVYVILTNPISEKOSHVSGLVYV 418
Qy 421 VPPQIGKALISPDVSYOGTMOTLTCTVYANPPLHIIOMWOLEEACSVYRPGQ---TS 476
Db 419 VPPQIGKSLISPDVSYOGTTLCTVYALPPPHIHMWOLEEACNEPSQAVSYTN 478
Qy 477 PYACKEMRHVEDFGGKNIETVKNQVALIEGKNKTVSLVIOANVSALYKCEAINKAGR 536
Db 479 PYCEEMRSVDEDFGGKNIENKQFALIEGKNKTVSLVIOANVSALYKCEAVNKGR 538
Qy 537 GERVISFHVIRGPETVQPAQPTQESVSLCTADRNTEENTWYKLGASQTSVHNGES 596
Db 539 GERVISFHVIRGPETVQPMQPTQESVSLCTADRNTEENTWYKLGQPLPIHVGEL 598
Qy 597 LTPVCKNLDALMKNGTMSNTDILIVAFONASLDQGGYVSAODKTKRKHCVLRQ 656
Db 599 LTPVCKNLDTLWKNAITMFSNSTDILIMEIKNASLDQGGYVLAQDKTKRKHCVLRQ 658
Qy 657 LILERNAPMITGNLENQTTIGETIEVTCPASGNPTPHITWFXDNELTVESGIVLRDG 716
Db 659 LTVLRVAPITTNLENQTTISIGSIEVSCASGNPPQIMFWFNDNETLVESGIVLRDG 718
Qy 717 NRNLTIRVRKEDGGLYTCQACNVLCARAEFTLFIIGAOKTNLE 762
Db 719 NRNLTIRVRKEDGGLYTCQACSVLCARAEFTLFIIGAOKTNMD 764

RESULT 5
US-11-104-110-8
; Sequence 8, Application US/1104110
; Publication No. US20060002916A1
; GENERAL INFORMATION:
; APPLICANT: Ruggles, Sandra
; APPLICANT: Nguyen, Jack
; TITLE OF INVENTION: CLEAVAGE OF VEGF AND VEGF RECEPTOR BY WILDTYPE AND MUTANT MT-SPI
; FILE REFERENCE: 25840-502
; CURRENT APPLICATION NUMBER: US/11/104.110
; CURRENT FILING DATE: 2005-04-12
; PRIOR APPLICATION NUMBER: 60/561,720
; PRIOR FILING DATE: 2004-04-12
; PRIOR APPLICATION NUMBER: 10/677,977
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,388
; PRIOR FILING DATE: 2002-10-02
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 8
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-104-110-8

Query Match 46.0%; Score 3240; DB 7; Length 764;
Best Local Similarity 79.9%; Pred. No. 2.1e-212;
Matches 61; Conservative 56; Mismatches 92; Indels 6; Gaps 2;

QY 2 ESKALLAVLWFCVETRAASVGLTGDFLHPPKLTSTOKDILLTLANTLTLOITRGORDLM 61
DB 2 OSKVLAAVLMWCVETRAASVGLPSVSLDLPLRLSTOKDILLTKANTLTLOITRGORDLM 61

QY 62 LMPNARDSEERVLVTECGGDSIFCKTLTIPRVGNDRGAACSRDVIDASTVYVYVR 121
DB 62 LMPNARDSEERVLVTECGGDSIFCKTLTIPRVGNDRGAACSRDVIDASTVYVYVR 119

QY 122 DYRSFPFASVSDQHGIVYITENKNTVYPCRGSISNLNLSLCARYPERFYPDGRISM 181
DB 120 DYRSFPFASVSDQHGIVYITENKNTVYPCRGSISNLNLSLCARYPERFYPDGRISM 179

QY 182 DSEIFPLPSYMIISVAGWFCFAKINDERYOSIMYVYVYVYVYVYVYVYVYVYVYVY 241
DB 180 DSKGFFLPSYMIISVAGWFCFAKINDERYOSIMYVYVYVYVYVYVYVYVYVYVYVY 239

QY 242 EKLVTNCTARTLNLGLDFTMHSPPSKSHKKIIVNRDVPFPGTVAKXPLSTLTIESVTK 301
DB 240 EKLVTNCTARTLNLGLDFTMHSPPSKSHKKIIVNRDVPFPGTVAKXPLSTLTIESVTK 299

QY 302 SDQGYTCVASSSGRMIKRNRFFVRVHTKPIAFSGSKSLVEATVGSQVRIPVKXLSYPA 361
DB 300 SDQGYTCVASSSGRMIKRNRFFVRVHTKPIAFSGSKSLVEATVGSQVRIPVKXLSYPA 359

QY 362 PDIKYKNGRPYESNYTMIWDELTIMEYTERDAGNYTILNPLISMEKOSMVSLLVNV 421
DB 360 PEIKYKNGRPYESNYTMIWDELTIMEYTERDAGNYTILNPLISMEKOSMVSLLVNV 419

QY 422 PPOIEKALLISPMDSYOGTMTLTCTVYANPRLHIOMWOLEACSVRPO----NSP 477
DB 420 PPOIEKALLISPMDSYOGTMTLTCTVYANPRLHIOMWOLEACSVRPO----NSP 479

QY 478 YACKEMRVEDPQGNKIEVTKNOYALIEGKNTVSTLVIOANVSALYKCEAINKAGRG 537
DB 480 YACKEMRVEDPQGNKIEVTKNOYALIEGKNTVSTLVIOANVSALYKCEAINKAGRG 539

QY 538 ERVIFSVHVRGPEITVOPAPTEBESVSLCTADRNTEENITWYKLSQATSVMGESL 597
DB 540 ERVIFSVHVRGPEITVOPAPTEBESVSLCTADRNTEENITWYKLSQATSVMGESL 599

QY 598 TPVCKNLALWKLNGTMSNSTNDILIAFONASIODODVYCSAODKTKRRLCLVQL 657
DB 600 TPVCKNLALWKLNGTMSNSTNDILIAFONASIODODVYCSAODKTKRRLCLVQL 659

QY 658 IILERMADITGNLENQTTIGETIEVTCPASGNPTPHITWPKDNETLVEDSGIVLRDN 717
DB 660 IILERMADITGNLENQTTIGETIEVTCPASGNPTPHITWPKDNETLVEDSGIVLRDN 719

QY 718 RNLITRRVRKEDGLYTQACNVLCAPARETLFITEGAQEKTNLE 762
DB 720 RNLITRRVRKEDGLYTQACNVLCAPARETLFITEGAQEKTNLE 764

RESULT 6
US-11-104-110-9
; Sequence 9, Application US/1104110
; Publication No. US20060002916A1
; GENERAL INFORMATION:
; APPLICANT: Nguyen, Sandra
; APPLICANT: Nguyen, Jack
; TITLE OF INVENTION: CLEAVAGE OF VEGF AND VEGF RECEPTOR BY WILDTYPE AND MUTANT MT-SPI
; FILE REFERENCE: 25840-502
; CURRENT FILING DATE: 2005-04-12
; PRIOR APPLICATION NUMBER: 60/561,720
; PRIOR FILING DATE: 2004-04-12
; PRIOR APPLICATION NUMBER: 10/677,977
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,388

; PRIOR FILING DATE: 2002-10-02
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 592
; TYPE: PR
; ORGANISM: Homo sapiens
US-11-104-110-9

Query Match 40.9%; Score 2879.5; DB 7; Length 592;
Best Local Similarity 93.2%; Pred. No. 4.3e-188;
Matches 552; Conservative 16; Mismatches 15; Indels 9; Gaps 1;

QY 763 VILVGTAVIAMEFLLVIVYRTVGRANEGELKTGYLSIWNDDPELDEECERLPYPA 822
DB 1 IILVGTAVIAMEFLLVIVYRTVGRANEGELKTGYLSIWNDDPELDEECERLPYPA 60

QY 823 SKMEFPRRLKLGKPLGGAFCQVTEADAFGIDKTATCTVAVVXKLKEGATSEHRALMS 882
DB 61 SKMEFPRRLKLGKPLGGAFCQVTEADAFGIDKTATCTVAVVXKLKEGATSEHRALMS 120

QY 883 ELKILIHGHILNVLNLGACTKPGCPMLVYEFCKFGNLSTYLKCKNEFVPIYSKGR 942
DB 121 ELKILIHGHILNVLNLGACTKPGCPMLVYEFCKFGNLSTYLKCKNEFVPIYSKGR 180

QY 943 PROGQVYGBLSVDLKRRLDSTSSQSSASGFEVEKSLDVEEBASEBELYKDFLTLEH 1002
DB 181 PROGQVYGBLSVDLKRRLDSTSSQSSASGFEVEKSLDVEEBASEBELYKDFLTLEH 240

QY 1003 LICYSFOYAKGMEFLASRKCIRDLAARNILSEKNVYKICDFGLARDIYKDPDYVRKD 1062
DB 241 LICYSFOYAKGMEFLASRKCIRDLAARNILSEKNVYKICDFGLARDIYKDPDYVRKD 300

QY 1063 ARLPLKMAPEITIPRVYTTIOSDVSFGVLLMEIFSLCASPYGKIDEBFCRLKEGR 1122
DB 301 ARLPLKMAPEITIPRVYTTIOSDVSFGVLLMEIFSLCASPYGKIDEBFCRLKEGR 360

QY 1123 MRAPDYTPENYQTMDCMHNDPNORPSFSELVHLGNLQANQODKDYIVLPMSEFL 1182
DB 361 MRAPDYTPENYQTMDCMHNDPNORPSFSELVHLGNLQANQODKDYIVLPMSEFL 420

QY 1183 SMEEDSGSLPTSPVSCMEEBEVCDFKPHYDNTAGISHYLQNSKRSRPSVYKTFEDIPL 1242
DB 421 SMEEDSGSLPTSPVSCMEEBEVCDFKPHYDNTAGISHYLQNSKRSRPSVYKTFEDIPL 480

QY 1243 EBPYKVIIPDSDQSDGAVTLASBELKTLIEDRKLSPSGMMPSKRSRVSASEGNSQTS 1302
DB 481 EBPYKVIIPDSDQSDGAVTLASBELKTLIEDRKLSPSGMMPSKRSRVSASEGNSQTS 540

QY 1303 YOSGHSDDTPTYVSSDEAGLKNVDAVHA-----DSGTTLASPV 1345
DB 541 YOSGHSDDTPTYVSSDEAGLKNVDAVHA-----DSGTTLASPV 592

RESULT 7
US-11-043-693-34
; Sequence 34, Application US/11043693
; Publication No. US20050281831A1
; GENERAL INFORMATION:
; APPLICANT: Davis-Smyth, Terri L.
; APPLICANT: Chen, Helen H.
; APPLICANT: Presta, Leonard
; APPLICANT: Ferrara, Napoleone
; TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dorsey & Whitney LLP
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States

```
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/043,693
FILING DATE: 26-Jan-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/105,901
FILING DATE: 20-Mar-2002
APPLICATION NUMBER: 09/348,886
FILING DATE: 01-JUL-1999
APPLICATION NUMBER: US 08/643,839
FILING DATE: 07-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Richard F. Treccartin
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-63291-3/RFT/NBC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 1368 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-11-043-693-34

Query Match      38.8%; Score 2733.5; DB 7; Length 1368;
Best Local Similarity 43.4%; Pred. No. 1.1e-177;
Matches 597; Conservative 212; Mismatches 468; Indels 97; Gaps 27;

QY      1 MESKALLAVALMFCVETRAASVGL-----TGDFLHPPLKS-TQKDIILANTLTQITCR 54
DB      1 MQRGALCLRLMLC-----LGLDGLVSGVSMTPPLSLITESHVIDTGDLSISCR 53
QY      55 GORDLDWIMWNAO-----RDSEERVLVTECGGDS-IFCKTLTIRPVGNDRGAYCS 106
DB      54 GQHPLEWMPGAQEPATGDSBDTGVRDCEGDARPYCKVLLHVNANDGSGYCY 113
QY      107 YRDV-----DIATVVYVVDYRSPFIASVDOHGIYITENKKTIVIPCRGISLNL 160
DB      114 YKVKIKAREGTTASIVIFISDTGRPFVEMYSEIPEIIMTEGRB--LVIFCRYTSPIIT 171
QY      161 VSLCARPEKRFVDPGNRISWDSIEGTLPSYMI SYAGMVFCEAKINDETYQSIWYIVV 220
DB      172 VTL-KKFLDLTLIDGAKRIINDSRKGFISNATYKEIGLLTCEATVNGHLTKT-NYLTHR 229
QY      221 VGVRIYDVIISPPHIEISAGEKLVNCTARTELNVGLDFTMHPSPRSKHHKTVNRVYK 280
DB      230 TGENELYDQLPRKSLLELVGEBKLVNCTVWAEFNSGVTFDMWDYPGKAERGKVPERRS 289
QY      281 PPGGVAMFLSTLTIESVTSKDOGEYTCVASSGMIKRNRTFVRHTKPIAFSGWKS 340
DB      290 QQTHTELS---SILTIHVSGHDLGSIYCKANNGIQRRRESTEVRVHNPFISYEWLKG 346
QY      341 LVEATVGSQ-VRIPVKYSYPAPDIKWYRNGRPRESNYTMI VGBELTIMEVTERDAGNYT 399
DB      347 ILEATAGDELIVLPVKLAAYPPPEFQWKDGKALSGRHS--PHALVLKEVTEASTGYT 403
QY      400 VILNPISEMEKQSHMVLVNVVPPQIGKALISPMDSQYGTMTQTITCTVYANPLHHIQ 459
DB      404 LALNNSAAGLRRNISLELVNVVPPQIHKEASSP-SIYSRHSRQALTCITAGVPLPLSIQ 462
QY      460 WYMOLEEASGY-----RPGQTSYPAKEMRWHEVDFOGNKIEVTNGQVALIEGKKY 511
DB      463 WHMRPWTPCKKIFAGRSILRRQOQDLMPGCRDMRAVTTODANVPISLDTWTFPEVGAKY 522
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QY      512 VSTLIQAAVNSALYKCEALNKAGRGRIVSEHVIRGE---ITVQPAAQTEGESVLL 568
DB      523 VSKLIVIANVANSAMKCVSNKVGQDBRLIFYVYTTIPDGTIISKSEELIEGQVLLS 582
QY      569 CTADRNTEFNTWKVKGQATSVHMGESLTPVCKNLDAIMLTNMTMSNSTNDI----- 622
DB      583 QQADSYKEHLRWYRLNSTLHDAGNPLLDCKNV---HLFATPLAASLEEVAFGARRH 638
QY      623 --LIVAFQNASLADQGVYCSADQKTKRKHCLVKQIILIERMAPMITGNLENOTTIGE 680
DB      639 ATLSLSIPRVAPEHGHVYECVQDRRSHDKCHKKIVLSVQALEAPRLTONITDLLVNVSD 698
QY      681 TIEVTCPASGNPTHTITWFKDNETLVDSGIVLPDGRNMLTTRVRKEDGGLYTCQACNV 740
DB      699 SLEWQCLVAGAHAPSIVWYXDERLLEBSKSGVDLDSNQKSIQVRREEDARVYCSVNA 758
QY      741 LGCARAEITLFIIEAQOKTNLEVIIVGSTVIAVEFWLLLVIVLRTYKRANEGSLKGYL 800
DB      759 KGVNSSASVAVBESBDSKMEIIVLTGVIAFFWVLLILFCNKRRAHADIKTYL 818
QY      801 SIWDPDELPLDERCERLIPYDASKMEFPDRDLKLKGLDGRGAFQGVIEADAFGIDKTYTC 860
DB      819 SIWDPGEVPLEBQCEVLSYDASQMEFPERRHLGRVLGYCAFQKVYBASAFGIHKGSSC 878
QY      861 KTVAVKMLKGCATSEHRAIMSELKILIHGHILNVNLLGACTYKPGQPLMVIYVECKFG 920
DB      879 DTVAVKMLKGCATSEHRAIMSELKILIHGHILNVNLLGACTYKPGQPLMVIYVECKFG 938
QY      921 NLSTYLGKNEFVYVSKG---ARFQKQDVYGEIS-VDLKR--RLDSTSSQSSASS 973
DB      939 NLSNPLAKDDAFSPCAEKSPBEORGRFRA---NVELARDRRRPGSSDRVLFARFSKTE 994
QY      974 GFVEKSLSDVEEASEELYKDFLTLEHLICYSFOYAKGMEFLASRKCIHRDLAARNIL 1033
DB      995 GGAARAS-----PQGEADMLSPLTWEDLVCSFYQVARGMEFLASKKCIHRDLAARNIL 1049
QY      1034 LSEKNVYKICDFGLARDIYYDQDVYRKGDARLPLKMAPEITIPRVYTTIQSDVMSFGVLL 1093
DB      1050 LSESDVYKICDFGLARDIYDQDVYRKGSARLPLKMAPEISIPDKVYTTQSDVMSFGVLL 1109
QY      1094 WEIPLGASPYGVKIDIEFCRRLKEGTRMARPYTTPENYQTMDCMHEDPNORPSPSE 1153
DB      1110 WEIPLGASPYGVQVNEEFCQRLRDGTMRAPARLAPLARRILNCSGPKARPAPSE 1169
QY      1154 LVEHIGMLQANAAQDQKDYIVLPMSETLSEEDSGSLPTSPVSCMEBEVECDP----- 1208
DB      1170 LVEILGDLGGRGLQBEVEVCMAPRS--SQSSEBSGFSQVSTMALHIAQADABDSPSLQR 1228
QY      1209 ---KHYDNTAGISHYIQNSKRKSRPVSVKTFEDIPLBEPVYKTI PDDSGTDSQMTLASE 1265
DB      1229 HSLAARYNNWVSFPFCIARGAETRGSSRMKTFEEFPM-TPTTYKGSVDNQDTSQMVLA SE 1287
QY      1266 ELKTEEDRNKLSPPFG-----GMPMSKRESVASGNSQ-----TSGYOSGCHSD 1310
DB      1288 EPEQIESRHRQESGFCCKPGQNVAVTRAHPDSQGRRRRPRRGARGQGVFNSE 1341

RESULT 8
US-11-109-156-23
Sequence 23, Application US/11109156
Publication No. US20050250144A1
GENERAL INFORMATION:
APPLICANT: Toshio Ota
APPLICANT: Takao Isogai
APPLICANT: Tetsuo Nishikawa
APPLICANT: Koji Hayashi
APPLICANT: Kaoru Otsuka
APPLICANT: Jun-ichi Yamamoto
APPLICANT: Shizuko Ishii
APPLICANT: Tomoyasu Sugiyama
APPLICANT: Ai Wakamatsu
APPLICANT: Keiichi Nagai
```



```
/ APPLICANT: Tetsuji Otsuki
/ APPLICANT: Shin-ichi Funahashi
/ APPLICANT: Chiaki Senoo
/ APPLICANT: Jun-ichi Nezu
/ TITLE OF INVENTION: NOVEL GENES ENCODING PROTEIN KINASE/PROTEIN
/ TITLE OF INVENTION: PHOSPHATASE
/ FILE REFERENCE: 06501-099002
/ CURRENT APPLICATION NUMBER: US/11/109,156
/ CURRENT FILING DATE: 2005-04-19
/ PRIOR APPLICATION NUMBER: US/10/060,065
/ PRIOR FILING DATE: 2002-01-29
/ PRIOR APPLICATION NUMBER: PCT/JP00/05061
/ PRIOR FILING DATE: 2000-07-28
/ PRIOR APPLICATION NUMBER: US 60/159,590
/ PRIOR FILING DATE: 1999-10-18
/ PRIOR APPLICATION NUMBER: US 60/183,322
/ PRIOR FILING DATE: 2000-02-17
/ PRIOR APPLICATION NUMBER: JP 11-248036
/ PRIOR FILING DATE: 1999-07-29
/ PRIOR APPLICATION NUMBER: JP 2000-118776
/ PRIOR FILING DATE: 2000-01-11
/ PRIOR APPLICATION NUMBER: JP 2000-183767
/ PRIOR FILING DATE: 2000-05-02
/ PRIOR APPLICATION NUMBER: JP 2000-241899
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 23
/ LENGTH: 1338
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-109-156-23
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Query Match      38.2%; Score 2694.5; DB 7; Length 1338;
Beet Local Similarity 43.4%; Pred. No. 5e-175;
Matches 597; Conservative 212; Mismatches 469; Indels 99; Gaps 28;
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QY 6 LLAVALMFCVETRAASVGLTGDPLHPKSTQKDLITLANTTLQITCGRDLDLWLN 65
DB 9 VLLCLLSTGLLTGSS---SGSKLMDPELSKGTQHIMAGQTLHQCGEAAHKMSLDE 65
QY 66 AORDEBRLVTE--CGGSDSIFCKTLTIPRVVNDTGAYKCSYRDV-----DIASVY 117
DB 66 MVSKESERLSITKSCGRNGKQFCSTLTNTAQAHTGTFSCKYLAVPTSKKTESALY 125
QY 118 VVVRDYRSPFIASVSDQHGIVITENKNTVITPCGSGISNLNLSCLAYPEKRPVDDN 177
DB 126 IFISTGRPFVEMYSIEPIIIMTEGR--LVIPCRVTSPTITVTL-KKPLDITLIPDK 182
QY 178 RISMSDEIGFTLPSYMIISYAGNVFCEAKINDETYGSIYIVVVGRIYDVLISPPHE 237
DB 183 RIMSRKGFISNMTYKSIIGLTCEATVNGHLTKT-NYLTRQNTITIDVQISTPRPVK 241
QY 238 LSAGKLVINCTARTELNVGLDFTWHSPPSKSHKKKIVNRDVKPPPGTVAKMFLSTLIE 297
DB 242 LIRGHTLVINCTATPLNTRVQMTWSYPDEKKKRASVRRRIDQ--SNSHANIFYSLTID 299
QY 298 SVTKSDQGEYTCVASSGRMIKKNRTFVRHTKPFIAFGSGMSLYEATVGSQ-VRIPVKY 356
DB 300 KMNQKDKGLYTCRVSRGSEFKSVNYSVHLYDAFTVVKRKOQVLETVAGKSYRLSMKV 359
QY 357 LSYPAADIKWYRNGRPI--ESNYTMI VGDELTIMETEDAGNVTYVILTNPISEMKOSIM 414
DB 360 KAFPEPEVYVWLKDG.PATEKSARYLTRGSLIKITVTEADAQNTIILSIKSNVFKULT 419
QY 415 VSLVNVNPPQICEKALLSPMDS--YQYGTMQTLTCTVANPPLHHIQWTQMLEACSYRP 472
DB 420 ATLIVNVKQIYEKAVSSFPDPALYPLGSRQILTCTAYGIPQ-PIIKPMFW--HPCNNH 475
QY 473 GQTSYACKEWHRVDF-----QGGNKIEVTKNOYALIEGKNTVSTVIQANVSALY 526
DB 476 SEARCDPFS--NNESFILDADSNMGNRIESTORALIEGKNKASTLVVADSRISGIY 533
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QY 527 KCEAIKAGRGERSVFAHVRGPE-ITVQPAAPTEQESVSLTCTADRNTFENLTW----- 581
DB 534 ICIASNKVTGVRNHSFYITDVPNGFHVNLKERTGTGDLKSTCNKFLYRDVTIILR 593
QY 582 -----YKLSQATSVMGSSLTPVCKNLDAWLKNGTMSNSTNDILYAFQNASIQ 633
DB 594 TVNNRTMHSISQKQKALIKREHSIT-----LNLITNIVSIQ 629
QY 634 DQGDVYCSAQDKTKKRHLVQOLILERMAMPITGNLENQTTTGETIEVTCPSAGNPT 693
DB 630 DSGTACCRANVYTGSEILQKKEITRIDQAPVLENLSDHTVALSSSTTLDOHANGVE 699
QY 694 PHITWFKDNETLVEDSGIVLRDGNRLITRRYKEDGGLYTCQACVNLCAARLETLPIE 753
DB 690 PQTWFKNNHKIQOEIGIILGPGSSTLFERTYEBEGYHCKATKQKSVESASALTYQ 749
QY 754 GAOEKTNLEVIILVGTAVIAMFFWLLVILVTRKRNANGELKTYGLSITVMPDELPLDE 813
DB 750 GTSDDKSNLELITLTCTCVAATLFMILLIRMKRSS-SEIKTDVLSITIMDPDEVPLDE 808
QY 814 RCERLPYDASKKEFPDRDLKGRPLGRGAFQVTEADAGIDKATCKTVANVMLEKAT 873
DB 809 QCERLPYDASKKEFAERLKLKSLGRGAFQVQASAFGIKSPCTRTVAAYKMLEGAT 868
QY 874 HSEHRLMSELKILIHIGHLVNVLGACTKRGGLPVIYVEFCRKNLSTYLRGRNEF 933
DB 869 ASEYKRLMTELKILIHIGHLVNVLGACTQGGPLVIYVECYKGNLSYLLKSRDLF 928
QY 934 VPKSKGARFRQKDYGE-LSVDLKRRLDSITSSQSSASGFEVEKSLSDVEEBASEE 992
DB 929 PLNKDAALHMBPEKMEPELQGGKPRLDVSTSSFSASGFOEDKSLSDVEEBSDNG 988
QY 993 LKQDLTLEHLICYSFOVAKGMEFLASRCHRDLAARVILLSEKNVVICPGLARDIY 1052
DB 989 FYKEPIITMEDLISYFOVARGMEPLSRKCHRDLAARVILLSENNVVICPGLARDIY 1048
QY 1053 KDPDYVRKGDARLPLKMAPEITIPRVYTIQSDVWSFGVLAWEIFSLGASPPGVKIDEE 1112
DB 1049 KNPDYVRKGDTRPLPKMAPEISIPDKIYTSKDVWSYGLVLEIFSLGSPFGVQMDSD 1108
QY 1113 FCRRLKEGTRMRAPDYTPREMYQMLDCWHDENPNRPSFSELVEHLGNLLQANAQDGD 1172
DB 1109 FCSRLEGRGMRRAPEYTPREIYQIMLDCWHRPKERPREALEVEKLGDLQANVQDGD 1168
QY 1173 YVLEPMSETLSMEBDSGLSPSPVS-CMEEBEVCDDPKHYNTAGISHTYLONSKRKSP 1231
DB 1169 YI--PINALT--GNSGFTYSTPAPSEDFPKESISAPKFNSSGSDVRYV--NAFKMSL 1222
QY 1232 VSVKTFEDIPLPEEPVKYIPDDSDQTDGCVLASEELKTL---EDRNKLSPSFGMMPSKS 1288
DB 1223 ERIKTFEEL---LPAATSMFDDYQGDSSSTLASPMLKFTWTDSPKASLKDILAVTSKS 1279
QY 1289 RESVASSEGSNOTSGYQS-GYHSDDTDTTVYSSDEAGLLKMDAAVHADSGTTLRSP 1344
DB 1280 KESGSLDVSRSRPFCHSSCGHVSEGRRTFY--DHALEIRKLIACC-----SP 1324

RESULT 9
US-10-821-234-1622
/ Sequence 1622, Application US/10821234
/ Publication No. US20050255114A1
/ GENERAL INFORMATION:
/ APPLICANT: Labat, Ivan
/ APPLICANT: Stache-Crain, Birgit
/ APPLICANT: Andarmani, Susan
/ APPLICANT: Tang, Y. Tom
/ TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
/ FILE REFERENCE: 821A
/ CURRENT APPLICATION NUMBER: US/10/821,234
/ CURRENT FILING DATE: 2004-04-07
/ PRIOR APPLICATION NUMBER: US 60/462,047
/ PRIOR FILING DATE: 2003-04-07
/ NUMBER OF SEQ ID NOS: 1704
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TELEFAX: (415) 398-3249
 TELEX: 910 277299
 INFORMATION FOR SEQ ID NO: 33:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1362 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 US-11-043-693-33

Query Match 38.2%; Score 2691.5; DB 7; Length 1362;
 Beet Local Similarity 43.1%; Pred. No. 8.1e-175;
 Matches 589; Conservative 205; Mismatches 484; Indels 89; Gaps 25;

```

QY 1 MESKLLAVALMFCVETRAASVGL-----TGDFLHPKXSTQKDLITLANTLTQTGCG 55
DB 1 MORGALALCRLWLC-----LGLDGLVSGYSMTPTLSLKGTOHIMQAGTLLHQCRG 53
QY 56 QRLDMLPMAQRDSEERVLVTE--CGGSDSIFCKTLTTPRVVGNDTGAYKSYRDV--- 110
DB 54 EAAHKMSLPBMWSKESERLITKSACGRNGKQFCSTLTLTNTQAQNHGTFSCKYLAVPS 113
QY 111 ---DIASVTVVYVDRYRSPFIASVSDQHGIVYTENKNTVVI PCRGISINLSLCARY 167
DB 114 KKKETESAIIYIFISDTGRPFVEMYSIEIPRIIMHTEGRE--LVI PCRVTSPTITVTL-KKF 170
QY 168 PEKRVPRGNRISMSEIGTFLPSYMWISAAGVFCBAKINDETYSIMIVVVGRIYD 227
DB 171 PLDTLIPGOKRIIMSRKGFITISNATYKEIGLLTCEATVNGHLVYKT-NLTHRQNTTII 229
QY 228 VILSPHEIETASAGEKLVNCTARTELNVLNGDFTWHSPPSKSHKKIVRVDKPPPGYVA 287
DB 230 VQISTPRPKLRLGHTLVNCTATTPPLNTRVQMTSYPDEKPKKASVRRRIQ--SNSHA 287
QY 288 KMFLLSTLITESVTSKSDQGEYTCVASSGRNIKKNRTFVRVHTKPIAFSGSKMSLVEATVG 347
DB 288 NIFVSLTIDKQKNDKGLYTCRVSGSPFSKSVNTSVRVHENPFI SEVWLKPILEATAG 347
QY 348 SQ-VRIPIVKYLSYPAIDIKMYNNGRPISBNYIMVIGDELTIMEVTERDAGNTVLTNPI 406
DB 348 DELVLLPVPKLAIVPPEPFQWYKDGKALSGRHS--PHALVLEKEASTGTTLALMISA 404
QY 407 SMEKSHWLSLVANVPPOIGEKALISPMDSYOGYTMQTLTCTVYANPPLHNIOMYMOEB 466
DB 405 AGLARNISLELVNVPPOIHEKEASSP-SIYGRSRQALTCAYGVPLSLIQMTMRPPT 463
QY 467 ACSY-----RPGQTSYPACKEMRWYEDFQCGNKIEVTKNQVALIEGKNTVSTLYIQ 518
DB 464 PCKMPAQRSLRRRQOODLMPQCRDWRVAVTQDAVNPISLDTWTFEFGKNTVSKLVIQ 523
QY 519 AANVALYKCEALNKAGRGERYISFHYVIRGPE---ITYQPAQPIQESVSLCTADNRT 575
DB 524 NANVAMKCVVSNVQDERLIYVYTTIPDGFTESKPSEELLEGGPVLISCOADSYK 583
QY 576 FENLTWYLGSOATSVHMGESLTPVCKNLDALMKNGTMSSTNDI-----LIYAF 627
DB 584 YEHLRWYLNLSLTHDAHGNPLLDCKNV---HLFATPLASLEEVAPGARHATLSISI 639
QY 628 QNASIQDGDYVYCSAQDKTKRKRLVQLIILERMAMITGNLENTTIGETIEVTCP 687
DB 640 PRVAPHEGHVYCEVQDRRSHDKCHKYLSVQALEAPRLQNTLDLVNVSDSLMOQL 699
QY 688 ASGNPTPIITPKNETLVEDSGIYLRDGNRLTIRVRKEDGGLYTCQACVNLGCAAE 747
DB 700 VAGAHAPSIWYKBERLLEKSGVDLADSNQSLQVREBDAAGRYLSSVCAKCVSS 759
QY 748 TLFIEEGQEKTNLEVIILVGTAVIAMFFMLLVLTVRVKAANGELKGTGLSTVMPD 807
DB 760 ASVAVGESDEKSMIYILVGTGVAVFFWULLIIFCMRRPRADADIKTGLSLTIMPG 819
QY 808 ELPLDERCERLPYDASKWEPFRDLKLGKPLGRGAFGOVIEADAFGIDKTAQCTKVAVM 867

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DB 820 EYPLEQCEYLSYDASQWEPFRERLHGLVIGYAGFGKVVAEASFGIHKSSCDTVAVM 879
QY 868 LKEGATTHSRRLAMEIKLIIHGHIANVNLGACTRGGPLMYVERCKRGNLSTYR 927
DB 880 LKEGATTHSRRLAMEIKLIIHGHIANVNLGACTRGGPLMYVERCKRGNLSTYR 939
QY 928 GRNFEFVYKSGK---ARFROGDYVGLS-VDLKR--RLDSITSSQSSASGFVEEKS 980
DB 940 AKRDAFSPCAEKSPRQGRFRA---HWELARLDRRPSSDRVLPARSKTEGARRAS 995
QY 961 LSDVEEBASELYDFLTLEHLICYSPQVAKGMEPLASRKCIHRDLAARNILSEKNV 1040
DB 996 ----PDQEAEDLMLSLPTMEDLVCSFQVARGMEFLASRKCIHRDLAARNILSESDV 1050
QY 1041 KICDFGLARDIKDDYVRKGRARLPKMMABETIFDRYTTQSDVWSGVLWMEFSLG 1100
DB 1051 KICDFGLARDIKDDYVRKGRARLPKMMABESIFDKYTTQSDVWSGVLWMEFSLG 1110
QY 1101 ASPYGVAKIDEBFCRLKEGTMRAPDYTPPEMYOTMLDCWHEDPNQPSFSELVEHLGN 1160
DB 1111 ASPYGVQVINEBFQRLADGTFMRAPDELATPAIRIMLNCWGDPKARAFSELVEILGD 1170
QY 1161 LIQANAQDQKDYIVLPMSETLSMEEDSGLSIFSPVSCMEEEVCDP-----KFHY 1212
DB 1171 LLQGRGLQEBEEVCMAPRS--SQSSESGFSQVSTWALHIAQADADSPSLQRHSLAAY 1229
QY 1213 DNTAGISHYLNQSRKRSRPVSQKTFEDIPLBEPYKVIIPDSQTSQGWLASSEELKLE 1272
DB 1230 YNWSFPGCLARGAETRGSSRKTKTEEPFM-TPITYKGSVDNQTSGWLASSEEPQIES 1288
QY 1273 RNKLSPSFG----GMMPKRSRESVASEGNSQ-----TSGYQSGYSD 1310
DB 1289 RHROSGSFCCKPGQGNVAVTRAHPDSQGRRRRPERGAGGQVFTYSE 1335

```

RESULT 11
 US-11-043-693-32
 Sequence 32, Application US/11043693
 Publication No. US20050281831A1
 GENERAL INFORMATION:
 APPLICANT: Davis-Smyth, Terri L.
 APPLICANT: Chen, Helen H.
 APPLICANT: Presta, Leonard
 APPLICANT: Ferreira, Napoleone
 TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
 GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
 TITLE OF INVENTION: PRODUCTION
 NUMBER OF SEQUENCES: 52
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dorsey & Whitney LLP
 STREET: Four Embarcadero Center, Suite 3400
 CITY: San Francisco
 STATE: California
 COUNTRY: United States
 ZIP: 94111-4187
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/11/043.693
 FILING DATE: 26-Jan-2005
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/10/105.901
 FILING DATE: 20-Mar-2002
 APPLICATION NUMBER: 09/348.886
 FILING DATE: 01-JUL-1999
 APPLICATION NUMBER: US 08/643.839
 FILING DATE: 07-MAY-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Richard F. Treacartin

REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-63291-3/RFT/NBC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 1363 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-11-043-693-32

Query Match 37.7%; Score 2653; DB 7; Length 1363;
Best Local Similarity 42.7%; Pred. No.3,3e-172;
Matches 586; Conservative 208; Mismatches 479; Indels 100; Gaps 25;

1 MESKALLAVALMFCVETRAASVGL-----TQDFLHPKLTQKQILITLANTTQITCRG 55
1 MORGALCLRLMLC-----LGLDGLVSGYSMTPTLNTTEESHVIDTGDSLISICRG 53
56 QRDLDMLPMNO-----RDESERVLYTECGGGS-IFCTLTTPRVVGNDTGAYKXS 107
54 QHPLEMAPGAQOEARPATGDKSEDGVVRCDEGTDARPYCKVLLHEVHADTGSYCY 113
108 RDV-----DIATFVVVYVDRSPFIASVSDQHGIIVITENKNTVIVPCRGISINLV 161
114 KYIKARIEGTTRASSYFVRDPEOFINKPDT-----LVNRKDAAMVPCLVSTPGINV 167
162 SLCARYPEKRPVDPGNRISWDEIGFTLPSYMIYAGVFCBAKINDETYOSIMYIVVV 221
168 TL--RSQSSVLMPEQOEVVMDRGMIVSTPLHDLALYLQCEBTWGDDPFSNPLVHIT 225
222 GRYTYDVLSPHTELSAGEKLYVNCARTELNGLDFTWSPRSKSHHKYINRDKVP 281
226 GNEIYDIQLPRKSLIELVGEKLVNCTVMAEFNSGVTFDWDYPEKQERKQWPERRSQ 285
282 PFGTAKKMFSTLTIESYTKSDQGEYTCVASSGEMIKNRTFVRVHTPFIATFGSGMKSL 341
286 QTHIELS---SILTIHNSQDLGSLYCKANGLORFESTFEVIVHEMFIISVETLKPI 342
342 VEATVSGQ-VRIPVKYLSYPADIKWYNGRPISNSYTMIVGDELTIMEVTERDAGNTV 400
343 LEATAGBELVTLPVKLAAYPPPEPQWYKGLKSGRHS---PHALVLKEVTEASTGYTL 399
401 ILTPNISERKSHWVSVLVNVPQIAGEKALLSPMDSYQYGMQTLCTVYANPPLHNIQW 460
400 ALMASAGLRNRNISLELVNVPQIHEEASSP-SIYSRHSQALTCTAYGVPLPLSIQW 458
461 YMLEEACSY-----RPGQTSFYACKEMRHVEDFGGKNIETVKQVALIEGKNTQV 512
459 HMRWPTPCMKMAQSLRRROODLMPQCRDMRAVYTOQAVNPISLDWTVEFESKNTV 518
513 STLVIOANVANSALYKCEAINKAGRGERSVIFHVIRGPE--ITVQPAAOPTQESVSILC 569
519 SKLVIONANVAMKCVVSNKVGQDERLIYFVVTIIPDGFTIESKPSHELLEGQVALLSC 578
570 TADNTFENLTMVYKLGSAQTSVHMGESLTPYCKNLDALMKNGMFSNSTDI----- 622
579 QADSVKYEHLKWRYNLTSLDHAHGNPLLDCKVN---HLFATPLASLEEVAPGARHA 634
623 -LIIVAFQASLQDQDVYCSAQDKTKRHCILVKQILILEMAMPITGNLENGTTIGET 681
635 TLISLIRPVAREHEGHYCEVQDRSHKHCHKYLISQALEAPRLITNLTDLVNVSDS 694
682 IEVTCPASGNPTPHITWPKNETLVEDSGIVLRDGNRLTIRYAKEDGALYTCQACNVL 741
695 LEMOCLVAGHAAPSIVYKDERLLEKSGVDLADNQLTSIORVEEDDAGRYLGSVCNAK 754
742 GCAAEATLFTIEGAQEKTNLEVIIVGTAVTAMPFWLLLVLTQVKGANGELKTGYLS 801

DB 755 GCUNSSASVAVEGSEDEKSGMEIVLVGTGVIANVFWVWLLLLIFCMRRRPNADIKITGYLS 814
QY 802 IYMDPELPLDERCERLPYDASKWEPPRDRUKLQKPLGRGAFGVITEADAFGIKDTATCK 861
DB 815 IIMDPGEVPLEQCEYISYDASQWEPFRERHLGRVLGYGAFGVVEASAGCIHKSSGCD 874
QY 862 TVAVKMLKEGATTHSEHVALMSELKILHIGHLNVNVLGACTPFGPLMYIVFCCKGN 921
DB 875 TVAVKMLKEGASASEHVALMSELKILHIGHLNVNVLGCTPFGPLMYIVFCCKYGN 934
QY 922 LSTYLRGRNRFVYKSG-----ARFQKQDYVGLS-VDLKR--RLDSINSSQSSASG 974
DB 935 LSNFLRAKRDAPFSICAERKSPQGRFRPA---MWELARLDRRRPGSSDRVLPAPPSSEG 990
QY 975 FVEKSLSDVEEBEASELYKDLTLEHLICYSFOVAKGMEFLASRKCIRHDLAARNLL 1034
DB 991 GARRAS-----PDQEAIDLMLSPLTWMDIVCYSTQVARGMGFLLASRKCIRHDLAARNLL 1045
QY 1035 SEKNVYKICDFGLARDYKDPDYRKGDARLPLKMAAPETTFDRVYTTIGSDVMSFGVLLW 1094
DB 1046 SESDVVYKICDFGLARDYKDPDYRKGSARLPLKMAAPESIFDKVYTTIGSDVMSFGVLLW 1105
QY 1095 EIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTBEMOTMLDCMHEDPNORPSSEL 1154
DB 1106 EIFSLGASPYGVKIDEEFCRLKEGTRMRAPDYTTBEMOTMLDCMHEDPNORPSSEL 1165
QY 1155 VEHGLNLLQANAOQDGKDYIVLPWSETLSMBEDSGLSLTPSPVSCMEEBEVCDB----- 1208
DB 1166 LEIGDLILQGRGLQEEBEVCMAPRS--SQSSEBSFSGVSTMAHLHIQADAEPSLQGRH 1224
QY 1209 --KHYNTAGISHTLYLONSKRKRSPVSVKTFEDIPLEPEYKVIIPDQSQDSGNVLAEE 1266
DB 1225 SLAARVYNWVSFPQCLARGAETRGSSRMKTFEEFPM--TPITYKGSVNQDTSQGNVLAEE 1283
QY 1267 LKTLDEDNKLSPSFG-----GWPPEKSRVSASSESGNO-----TSQYOSGYSD 1310
DB 1284 PEQIESHRQESGFCCKGPGONNAVTRAHPDSQGRRRRPERGARGGVFYVSE 1336

RESULT 12
US-11-092-168-10
Sequence 10, Application US/11092168
Publication No. US20050277658A1
GENERAL INFORMATION:
APPLICANT: Arizona Board of Regents on behalf of The University of Arizona
APPLICANT: Montigen Pharmaceuticals, Inc.
APPLICANT: Hurley, Laurence H.
APPLICANT: Mahadevan, Daruka
APPLICANT: Han, Haiyong
APPLICANT: Bearns, David J.
APPLICANT: Vankayalapati, Hariprasad
APPLICANT: Baahyam, Sridevi
APPLICANT: Munoz, Ruben M.
APPLICANT: Warner, Steven L.
APPLICANT: Della Croce, Kimko
APPLICANT: Von Hoff, Daniel D.
TITLE OF INVENTION: PROTEIN KINASE INHIBITORS
FILE REFERENCE: 920214.00003CONT3
CURRENT APPLICATION NUMBER: US/11/092,168
CURRENT FILING DATE: 2005-03-29
PRIOR APPLICATION NUMBER: US 10/965,313
US 60/608,529
US 60/511,486
US 60/511,489
PRIOR FILING DATE: 2004-10-14
2004-09-09
2003-10-14
2003-10-14
NUMBER OF SEQ. ID NOS: 11
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 316

TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: VARIANT
LOCATION: 204
OTHER INFORMATION: Xaa = Any Amino Acid
US-11-092-168-10

Query Match 22.7%; Score 1600; DB 7; Length 316;
Best Local Similarity 83.3%; Pred. No. 1,4e-101;
Matches 305; Conservative 5; Mismatches 6; Indels 50; Gaps 1;

QY 804 MDPELPLDERCERLPYDASKEWEPFRDLKGLKGLGAFGQVIEADAFGIDKTATCKTV 863
DB 1 MDPELPLDERCERLPYDASKEWEPFRDLKGLKGLGAFGQVIEADAFGIDKTATCKTV 60
QY 864 AVKMLKEGTHSEHRLMSELKILIHGHLLVNVNLGACTRPGGLMIVVEFCRGNLS 923
DB 61 AVKMLKEGTHSEHRLMSELKILIHGHLLVNVNLGACTRPGGLMIVVEFCRGNLS 120
QY 924 TYLRGRNEFVYKSKGAFROGKDYVGLSVDLKRRLLSITSSQSSASSGFVEEKSLS 983
DB 121 TYLRGRNEFVYKSKGAFROGKDYVGLSVDLKRRLLSITSSQSSASSGFVEEKSLS 134
QY 984 VEEBESAEELVYKDFLLEHLICYSFQVAKGMEFLASRKCIRHDLAARNILSEKNVVKIC 1043
DB 135 ---VAPEDLYKDFLLEHLICYSFQVAKGMEFLASRKCIRHDLAARNILSEKNVVKIC 190
QY 1044 DFGGLARDIYKDPDYRKGRARPLKMAPEITFDRIYTIQSDVWSFGVILMEIFSLGASP 1103
DB 191 DFGGLARDIYKDPDYRKGRARPLKMAPEITFDRIYTIQSDVWSFGVILMEIFSLGASP 250
QY 1104 YPGVKIDEEFCRLKEGTRMRAPDYTPPMYOTMLDCHEHDNPSPSELVEHIGNLIQ 1163
DB 251 YPGVKIDEEFCRLKEGTRMRAPDYTPPMYOTMLDCHEHDNPSPSELVEHIGNLIQ 310
QY 1164 ANAQOD 1169
DB 311 ANAQOD 316

RESULT 13
US-11-043-693-3
Sequence 3, Application US/11043693
Publication No. US20050281831A1
GENERAL INFORMATION:
APPLICANT: David-Smyth, Terri L.
APPLICANT: Chen, Helen H.
APPLICANT: Presta, Leonard
APPLICANT: Ferrara, Napoleone
TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
TITLE OF INVENTION: PRODUCTION
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dorsey & Whitney LLP
STREET: Four Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/043,693
FILING DATE: 26-Jan-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/105,901
FILING DATE: 20-Mar-2002

APPLICATION NUMBER: 09/348,886
FILING DATE: 01-JUL-1999
APPLICATION NUMBER: US 08/643,839
FILING DATE: 07-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Richard F. Treccartin
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-63291-3/RFT/NBC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 777 amino acids
TYPE: amino acid
STRADEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-11-043-693-3

Query Match 16.8%; Score 1186.5; DB 7; Length 777;
Best Local Similarity 34.5%; Pred. No. 5.7e-73;
Matches 277; Conservative 127; Mismatches 333; Indels 65; Gaps 15;

QY 1 MESKALLVAALVFCVETRAASVGL-----TGDFLHPKLSIQKIDLTITANTLTQICRG 55
DB 1 MORGALCLRLMLC-----IGLDDGVSGYSMTPTLNTBESHVIDTGSLSISCRG 53
QY 56 QHDLMLPMAQ-----RDESERLVTECGGDS-IFCKTLTIPIRVGNDGAYKCSY 107
DB 54 QHLEMAWGAQEAATGDKDSEDGTGVVRCGTDARPCYKLLHEVANDTGSVVCY 113
QY 108 RNV-----DIATYVYVYRDRSPFIASVSQHGIVITENKNTVIPCGLSINLV 161
DB 114 KYIKARIGTTPAASSYVFVDFEOPFINKPDT-----LVVRKDMWVPCVLSIPGLNV 167
QY 162 SLICARYPEKRFVDDGNRISMDSEIGFTLPSYVISAAGVCEAKINDETIOSIMYIVVV 221
DB 168 TL--RSQSSVLMFDQEVVWDDRGMLVSTPLHIALYICETTTGGDDQDFLSNPLVHIT 225
QY 222 GYRIYDVILSPHEIELSAGEKLVNCTARTELAVGLDFTWSPSKSHKKIVNRDVKP 281
DB 226 GNELYDQLLPKXSELLVGEKLVNCTVMAEFNGVTFDMYDPKQARGKMWPERBSQ 285
QY 282 FPGTYAKMFLSTLTIESVTKSDQGYTCVASSGMKIKNRTFVRYVHTFPIAFSGMSK 341
DB 286 QTHTELS---SILTIHNSOHLDSYVCKANNGIORFRESTEVIIVHENPFISEWMLKPI 342
QY 342 VEATVSGQ-VRIPIVYVLSYPAPDIKWYRNGRIENNTMIYVDELTIMEVTERDAGNTV 400
DB 343 LEATIGDELIVKLPVLAIVPPEFOWYOGKALSRHS---PHALVLEVTASGTITL 399
QY 401 ILTNPISEKOSHWVSLVNVVPPQIGERALKISPMDSYOGTWTLTCTVYANPLPHIQW 460
DB 400 ALMNSAAGLRNINISLVLVNVPPQIHEKEASP-SIYRHSQALITRAYGPLPLSLQ 458
QY 461 YWLEBACSY-----RPGQTSFYACKEMRHVEDFOGKNIEVTKOYALIBGNKTIV 512
DB 459 HWRPWTCKMFAORSLSRRQODLMPQCRDMRAVTTQDAVNPISLDTWTEVEEKNKTIV 518
QY 513 SLTVIQANVSLVLYCEALINKAGERVYSIFVIRGPE---ITVPAQPTQESVSLIC 569
DB 519 SKLVIQANVSAWKCVVSNKVGQDERLIFVYTTIPGFTIESKPSLELGGQVPLSLC 578
QY 570 TADRNTFENLTWYKLSQATSVHGESLTPVCKNDALMKLNGTWFNSSTNDI----- 622
DB 579 QADSVKYELHWRMLRNLTSLDHAHNPILLQKXV---HLFATPLAASLEEVAGARHA 634
QY 623 -LIYAFQNASLQDQDYCSAQDKTKRKRCCLVQOLILERMAMPITGNLEQTITIGET 681
DB 635 TLSISIPVABEHGHVCEVODRRSHDKCHKYTSVALAELAPRLTQNLTDLLVNVSDS 694

Query 682 IEVTPASGNPTPHITWFKNETLVEDSGIVLRDGNRLTIRKVEDGGLYTCQACVNL 741
Db 695 LEMOCLVAGAHPSIVWYKEDRLLEEKSGVDLADSNOKLSIORVVEEDAGRLCSVCNAK 754
Query 742 GCARAEFLIEGAQEKTNLEV 763
Db 755 GCUNSSASVAVEGSEDKSGMEV 776

RESULT 14
US-10-995-561-829
; Sequence 829, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: C1001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 829
; LENGTH: 1451
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(1451)
; OTHER INFORMATION: Kaa = Any Amino Acid
US-10-995-561-829

Query Match 16.5%; Score 1162; DB 6; Length 1451;
Best Local Similarity 25.3%; Pred. No. 6,3e-71;
Matches 347; Conservative 198; Mismatches 428; Indels 398; Gaps 41;

Query 32 PKLSTQKDLITLANTLTQITCRGQRLDMLPNAQDSEERVLVTECGGDSIFCKTLT 91
Db 28 PSLIPNEKEVQVQNSFSRLCFGESEVWQPMSEESSD-VEIRNEENNSGLFVTVLE 86
Query 92 IPRVAGNDTGAKSGYRVDIAT-----VYVYVDRDTRSPPT-ASVSDQHGIVYITENK 144
Db 87 VSSASAAHTGLYTCYNNHTQTEENLEEGRIHYIYPPDVAFFVPLGMDYLVIV----ED 142
Query 145 NKTAVIPCRGSIQNSLNLCAARYPEKRFVPGNRIISMSEIGFTLPSYIMISYAGWVCEA 204
Db 143 DDSAIIPERTDPEPVTL--HNSGVVP-----ASYDSRQGFN-GFTTV--GPYICEA 191
Query 205 KINDETYOSIMYIVVWGYRIYDVILSPHIEISA-----GEKVLNCTARTELNVG 257
Db 192 TVKGGKFGTI-----PFNYVALKATSELDLEMAKLVYKSGETIIVVTCVAFNNEVVD 244
Query 258 LDFWHSPPSKSHKIKVNRVKKPPGVAKMFLSTLTIESVYTSDOSEYTCVA-SSGRM 316
Db 245 LQWTV-----PGEVKGKGTMLLEIKVPSI--KLVTTLVPEATYVDSGDYECARQATRE 298
Query 317 IKR-NRTFVRVHTKPFIAFGSGMKSLVEATVGSQVRIIVKTLISYPADPIKWRNGRPIS 375
Db 299 VKEMKKVTISVHEKGFIRKTFPSQLEAVNLHEVGHFVEVRAIRPPPIISLKNLTLIE 358
Query 376 NYTWIIVGD-----ELTIMEVTERDAGNTVILTNPISMEKOSHNVSLVVNVPQ 424
Db 359 NLTEITDVEKIOEIRYRSKLIRAKEDSGHYIVAQNDAV--KSYTFELLTQV-- 414
Query 425 IGEKALISPMDSYQGT-MQTLTCTVYANPPLHNIQWQOLEACSTRPGOTSPACKEW 483
Db 415 ---SSILDLVDHNGSGGTVRCTA-EGTLPDIEW-----MICKD- 452
Query 484 RHVEDFGGKIEVTKNOYALIEGKNKTVSTLVIQANVSAALYCEALINKAGRGRAVISF 543
Db 453 -----IKCCNNE-----TSWTLIANVNSI----- 472

Query 544 HVIRGEPIWQPAAQPTQESVSLCTADRTFENLTWYKLSQATSVHMGESLTPVCKN 603
Db 473 -----ITEIHSRDRSTVEG----- 486
Query 604 LDALMKLNGTMSNSTDILIVAFQNASLDQDGYVCSAQDKTKKRCGLVKQLIILERM 663
Db 487 ----- 486
Query 664 APMITGNLENQTTIGETIEVTPCASGNPTPHITWFKNETLVEDSGIVLRDGNRLTIR 723
Db 487 -----RVTFAYKEETIA----- 498
Query 724 RVKREDGGLYTCQACNVIGCARAEFLIEIGAQEKTNLEVIIIVGTAVIAMFWLLIV 783
Db 499 -VR-----CLAKNLLGAENRELKVAPTLRSELFTVAALV-LIVIVILSLIVAVI 548
Query 784 LRTYKAN-----EGELKGYLSIWDPDRLPLDERCERLPYDASKKEPRDRKLKGP 837
Db 549 WKQRPYEIRMRVIESISPDEHEYIYVDPMLPYD-----SRWEPRDGLVLGRV 598
Query 838 LGRGAFQGVIEADAFGIDKATCTKTVAVKMLKEGATSEHRALMSELKILIHGHILNV 897
Db 599 LGSARFGKVVBGTAYGLSRQPVVKVAVKMLKPTARSSKQALMSELKIMTHLGHPLNIV 658
Query 898 NLGACTKPGGPLNIVVEFCFKNLSTYLGRKNEFV--PYKSKG----- 940
Db 659 NLGACTK-SGPIYIITBYCFYGDVNVYLNHKNRDSFLSHRPEKKELDIPLNADBEST 717
Query 941 -----ARPROCKDVVGLSLVDLKRRLDSITSSQSSASSGF-----VEBKSLSVE 985
Db 718 RSVVILSFENNQDVMKQADTQYVPMLEKEVSKYSDIQRSLYDRPASYKKSMDSE 777
Query 986 EEEASEELKYDFLTLEHLICYSFQVAKGMEFLASRKCIRHDLAARNILSEKNYKICDF 1045
Db 778 VKNLSDNBSGLTLLDLSTTYQVARGMETLASKNCVHRDLAARNVTLAAGKIVKIDCF 837
Query 1046 GLARDIYKDPDYRKGPAPLPLKMAPEETIFDRVYITQSDVWSEFVGLMELFSLGASYP 1105
Db 838 GLARDIHDNSVYVSGSTFLPVKMAPESTFDNLITLSDVWSYGLIMLEIFSLGCTYF 897
Query 1106 GVKIDEEFCRLKEGTMRAPDYITTPEMYQMLDCHMEDPQRQSFSEVLHNLQAN 1165
Db 988 GMMVDSTFYNNIKSGYMKARDAHATSEVETIMVCCMSBPBRKPSFHLSEIVNLTLPQ 957
Query 1166 AQQDGK---DYIYLPWSETLSMEDSGLSLPTSPVSCMEBEVCDPKFHYDNT-AGIS 1220
Db 958 YKSEYKIHDLFLSKDHPAARNRVDS-----DNAYIGVY 993
Query 1221 YLQNSRKK-----SRPVSVKTFEDIPLBEPEVKVLPDSDQTSQNVLASBELKTEIDR 1273
Db 994 KNEEDKLDWEGGLDEQRLSADSGYIPL--PDIDVPBE-----EDLGKR 1037
Query 1274 NKLSPSTFGMMPSKRSRESVASSEGNQTSYGQSGHSDTDITVYSSDBAGL 1324
Db 1038 NRHS-----SQTSESALETGSSSSTFK--REDETTEDIDMMDIGI 1078

RESULT 15
US-11-043-693-1
; Sequence 1, Application US/11043693
; Publication No. US20050281831A1
; GENERAL INFORMATION:
; APPLICANT: Davis-Smyth, Terri L.
; APPLICANT: Presta, Leonard
; APPLICANT: Ferrara, Napoleone
; TITLE OF INVENTION: NOVEL INHIBITORS OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR ACTIVITY, THEIR USES AND PROCESSES FOR THEIR
; TITLE OF INVENTION: PRODUCTION
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESS: Dorsey & Whitney LLP
; STREET: Four Embarcadero Center, Suite 3400

CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/043,693
FILING DATE: 26-Jan-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/105,901
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APPLICATION NUMBER: 09/348,886
FILING DATE: 01-JUL-1999
APPLICATION NUMBER: US 08/643,839
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ATTORNEY/AGENT INFORMATION:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
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INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 758 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-11-043-693-1

Query Match 14.9%; Score 1046.5; DB 7; Length 758;
Best Local Similarity 32.2%; Pred. 1.8e-63;
Matches 254; Conservative 130; Mismatches 334; Indels 71; Gaps 17;

QY 6 LLAVALMFCVETRAASVGLTGDFLHPKSLSTQKDIILITLANTLQITCGRGDLDLWMPN 65
DB 9 VLLCALLSLCLLTGSS--SGSKLDKPELSLKTQHIMAGQTLHLCRGSAHHKMSLPE 65
QY 66 AQRDEERVLVTE--CGGDSIFCKTLITPRVVGNDTGAIKCSYRDV-----DIASITY 117
DB 66 MVSKESERLSTKSAACGRNGKQFCSTLTLTNTAQAHTGFYSCYLAVPTSKKKESTESAII 125
QY 118 VYVRDYRSPFIASVSDQGIYITENKNTVYIPCRGISNLNLSLCARYPEKRFVDPGN 177
DB 126 IFISTGTRPFVEMYSEIPEIIMTEGRE--LVIPCRVTSPIITVTL-KKFLDITLIPDOK 182
QY 178 RISMDSEIGFTLLPSYMSIYAGNVFCEAKINDETYOSIMYIVVVGRIYDVILSPHEIE 237
DB 183 RIIMDSRKGFIIISNATYKEIGLTCBATVNGHLXT-NYLTHRGQNTIIDVQISTPRPVK 241
QY 238 LSAGEKLVNCTARTELAVGDLFTWHSPPSKSHKKIYNRDYKPPPGTVAKMFLSTLTIE 297
DB 242 LLRGHTVLNCTATPLNTRVOMTWSYPDEKMKRASVRRIDQ--SNSHANIFYSVLTID 299
QY 298 SVTKSDGEYTCVASSGMKIKNRFTFVRVHTKPFIAFGSMKSLVEATVGSQ-VRIPIVKY 356
DB 300 KMQNKDKLYTCRVASGSPFSKSVNTSVHIDKAFITVKKRKOQVLETVAGKRSYRLSMKV 359
QY 357 LSYPAIDIKWRNGRPI--ESNYTMIVGDELTIMEVTERDAGNTVILTNPISMKQSHM 414
DB 360 KAPSPPEVYVWMLKDGIPATEKSARVLTGRXSLLIKDVTEDAGNTIILSIKQSNVFKULT 419
QY 415 VSLVNVNVPQIGEKLLISPMDS--YQYGTMOFLTCTVYANPPLHIIOYTWOLEACSYRP 472
DB 420 ATLIVNVPQIYEKAVSSFPDPALYPLGSRQILTCTAYGIPO-PTIKFWF--HPCNNH 475

QY 473 GQTSFYACKEMRWHEDE-----QGANKEIYTKNOYALIEGKNKTVSTLVIOANVSALY 526
DB 476 SEARCDPFS--NNESFILDADSNMGNRIESTIGMAIIEGKNKXASTLVVADSRISGIY 533
QY 527 KCEAINKAGRGERYISFHVIRGPE-ITVQPAQPTQESVSILCTADRNTFENLTW----- 581
DB 534 ICIAENKVGTVGRNISFYITDVPNGFHVNLKMPTEGEBDLKLSCTVKNKFLYRDVTWILIR 593
QY 582 -----YKLGSOATSVHMGESLTPVCKNDALMKLNGTWFSNSTNDIILYAFONASIQ 633
DB 584 TVNNRTMAYISIKQMAITKEHSIT-----LNLTIMVSLQ 629
QY 634 DQGDYVCSAODKTKKRRCLVYKQILILRMAPMITGNLENQTTTIGETIEVTCPASGNPT 693
DB 630 DSGTACGABRVYTGEEILQKKEIITRQEAAPYLARNLSHDHTVALSSSTLIDCHANGVPE 689
QY 694 PHITFKONETLVEDSGIVLRDGNLITIRVRKEDGLYTCQACNVLGCAEAETLPIIE 753
DB 690 FOITFKNNHKIQCPGIIILGPGSSTLFIERVTEDEGVYHCKATNOKGSVESSAVLTVO 749
QY 754 GAQEKTNLE 762
DB 750 GTSDKSNFE 758

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